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OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

Subject: Addendum to the Residue Chemistry Chapter for Chlorothalonil and the Technical Impurity Hexachlorobenzene (HCB) Registration Standard: Tolerance Assessment System Tolerance Reassessment.

To: Amy Rispin, Ph.D. *W.H.M.*
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-and-
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In conjunction with the Chlorothalonil Registration Standard, a Tolerance Assessment System (TAS) tolerance reassessment has been conducted. This includes an estimation of the dietary exposure to Chlorothalonil and its impurity HCB. The percent of the Reference Dose (RFD) occupied by the TMRC and the oncogenic risk have been calculated for both chemicals.

Discussion- Chlorothalonil

The Reference Dose (PADI, RFD) used in the analysis was 0.015 mg/kg/day, based on a NOEL of 1.5 mg/kg/day obtained in a two year feeding study in dogs, with an Uncertainty Factor of 100. This value has been verified by Agency Reference Dose Committees. In addition, this compound has been identified as an oncogen by the Toxicology Branch Peer Review Committee. The upper bound potency estimate (Q^*) is 1.1×10^{-2} (mg/kg/day) $^{-1}$ (memo Bernice Fisher, 7/20/87).

The food uses evaluated were tolerances published in 40 CFR 180.275. Percent of crop treated data, provided by the Benefits and USE Division (BUD), were also incorporated into the exposure analysis. Data was available to RCB to determine Anticipated Residue values for several food crops, these values were utilized in this dietary exposure analysis.

I. Exposure Analysis based on Published Tolerances and an Assumption of 100% Crop Treated:

The TAS Routine Chronic Analysis estimates exposure based on per capita consumption, for the U.S. population and each of 22 population subgroups. In this case the Theoretical Maximum Residue Contribution (TMRC) for the U.S. population was calculated to be 0.012609 mg/kg/day, corresponding to 84% of the RFD. The most highly exposed subgroups were children 1-6 years of age (TMRC = 0.022415 mg/kg/day, or 149% of the RFD) and non-nursing infants (TMRC = 0.015674 mg/kg/day, or 104% of the RFD).

Oncogenic risk for the overall U.S. population average was calculated as follows:

$$\begin{aligned} \text{Exposure} \times Q^* &= \text{Risk} \\ 0.012609 \text{ mg/kg/day} \times 0.011 \text{ (mg/kg/day)}^{-1} &= 0.0001386 \\ \text{Risk} &= 1.4 \times 10^{-4} \end{aligned}$$

II. Exposure Analysis based on Anticipated Residue Values and adjusted for Percent of Crop Treated:

Percent of crop treated data, provided by the Benefits and Use Division (BUD), are incorporated in this dietary analysis. This data is in the form of a Preliminary Quantitative Usage Analysis (PQUA). This report summarizes the best estimates available regarding the pesticidal uses of Chlorothalonil. It should be noted that the quantity of pesticides used on crops that are grown on only a few acres and the quantity of infrequently used pesticides on more important crops are both difficult to ascertain. TAS did not use a percentage value of less than 10 for Chlorothalonil since reliable estimates of the percent of crop treated are not available for these situations.

Data was available to determine anticipated residue on the following crops: tomatoes and tomato products, celery, cabbage snap beans, for individual values see the anticipated residue printout. This data was derived from the Residue Chemistry Branch chapter for the Chlorothalonil Registration Standard and 10/24/83 memo to Ed Zager (Subject: 50534-8. Chlorothalonil Residue Estimates in Processed Foods) and studies conducted by SDS Biotech Corp. on celery and cabbage (Assessment No. 262158.). These data showed the effects of washing and in some cases, trimming on the level of pesticide residue. For tomatoes, data were available that showed the effects of processing. The use of tomato processing data was discussed in the Residue Chemistry Branch Residue Committee, 3/31/88.

Based on the anticipated residues and percent of crop treated, the exposure for the U.S. population was calculated as 0.000838 mg/kg/day, corresponding to 5% of the RFD. For children 1-6 years the exposure was reduced to 0.001352 mg/kg/day (9% of the RFD), and for non-nursing infants it was reduced to 0.001561 mg/kg/day (10% of the RFD). For a summary of the analysis using both published tolerances and published tolerances factored by percent of crop treated and anticipated residues (see page 1.0 in printout).

Oncogenic risk for the overall U.S. population using percent of crop treated and anticipated residue values was calculated as follows:

$$\text{Exposure} \times Q^* = \text{Risk}$$

$$0.000838 \text{ mg/kg/day} \times 0.011 \text{ (mg/kg/day)}^{-1} = 0.0000092$$

$$\text{Risk} = 9.2 \times 10^{-6}$$

The majority of the theoretical exposure and oncogenic risk is from tomatoes and celery (see Table 1a).

Discussion- Hexachlorobenzene (HCB)

As noted in the RCB Chapter for the Chlorothalonil Registration Standard, HCB has been identified as an impurity in technical Chlorothalonil. Data indicates that with the exception of soybean oil the residues of HCB resulting from the registered uses of Chlorothalonil were at or below 0.003ppm, which was the analytical limit of detection for this chemical. This theoretical value of 0.003ppm has been given to all food crops that have established tolerances for Chlorothalonil (an actual residue of 0.006ppm was reported for soybean oil). Using this theoretical value, an oncogenic risk assessment was conducted for HCB.

Oncogenic risk for the U.S. population average was calculated as follows:

$$\text{Exposure} \times Q^* = \text{Risk}$$

$$0.000006 \text{ mg/kg/day} \times 1.7 = 0.0000102$$

$$\text{Risk} = 1 \times 10^{-5}$$

The Q* value for HCB was generated by the Agency Cancer Assessment Group (CAG) date of determination not available).

The majority of the theoretical exposure and oncogenic risk is from tomatoes and soybeans (see Table 1b).

It is likely that this analysis over estimates the dietary exposure to HCB that results from the use of Chlorothalonil. However, we note that recent FDA market basket surveys consistently find detectable residues of HCB. It is difficult to estimate how much, if any, is due to the use of Chlorothalonil.

There are no tolerances for HCB and the ADI or RFD have not been determined (see the appended TAS printout for HCB).

When the analytical procedure for HCB is refined or changed to detect a smaller magnitude of this chemical, it is likely the theoretical oncogenic risk will be significantly lower.

cc.

Cholorthalonil RS
TAS File
C. Frick (RCB)
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PMSD

COMMODITY CONTRIBUTION TO CHLOROTHALONIL ONCOGENIC RISK

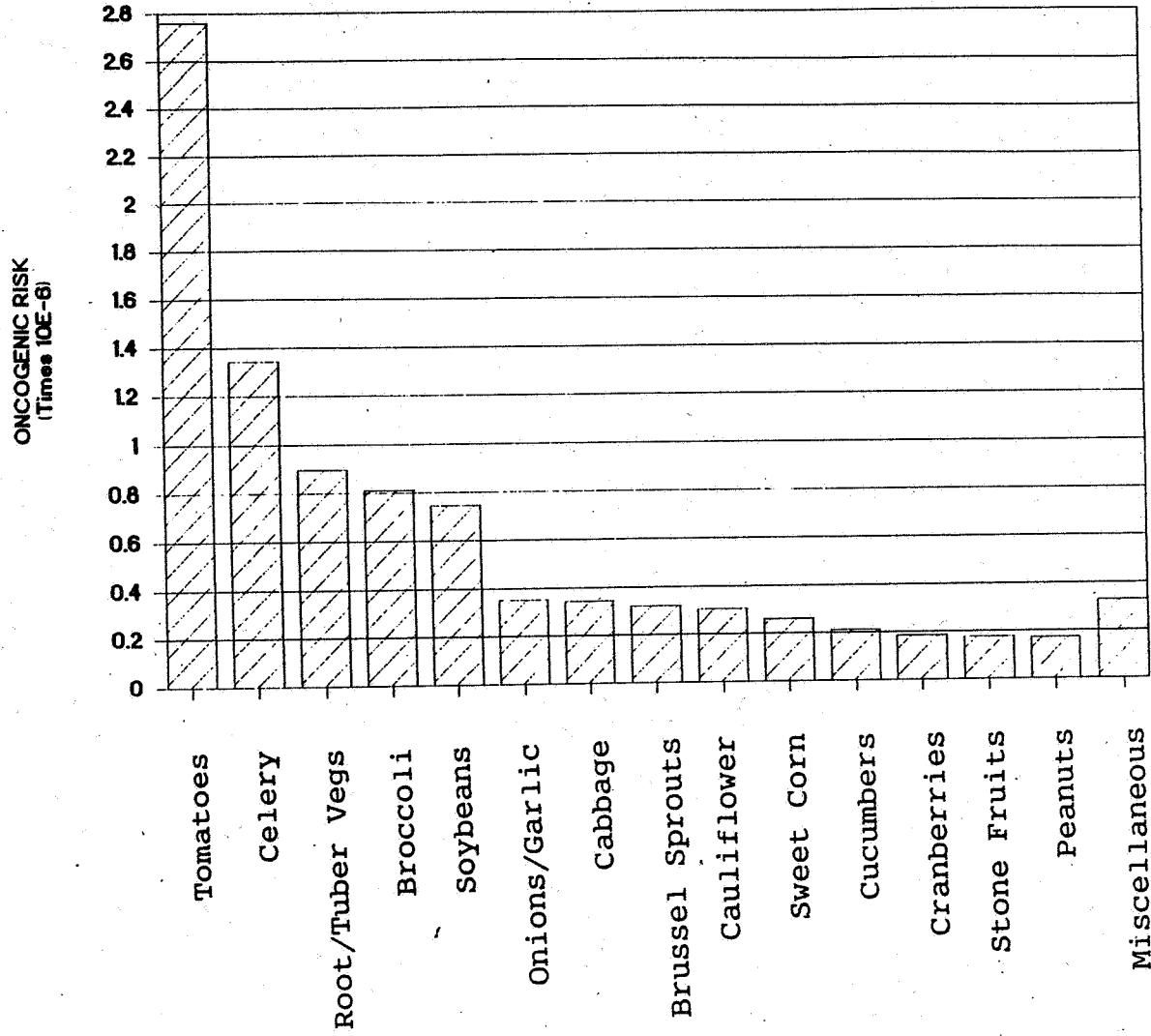


TABLE 1a

COMMODITY CONTRIBUTION TO CHLOROTHALONIL
ONCOGENIC RISK

| COMMODITY | ONCOGENIC RISK (U.S.) $\times 10^{-6}$ |
|---------------------------------|--|
| Tomatoes ^c | 2.8 |
| Celery ^c | 1.3 |
| Root/Tuber Veggies ^b | 0.90 |
| Broccoli ^b | 0.81 |
| Soybeans ^a | 0.75 |
| Onions/Garlic ^{b/a} | 0.35 |
| Cabbage ^c | 0.34 |
| Brussel Sprouts ^b | 0.32 |
| Cauliflower ^b | 0.30 |
| Sweet Corn ^b | 0.26 |
| Cucumbers ^c | 0.21 |
| Cranberries ^b | 0.19 |
| Stone Fruits ^b | 0.18 |
| Peanuts ^b | 0.17 |
| Miscellaneous | 0.33 |
| Total | 9.2×10^{-6} |

^aAnalysis based on tolerance (no percent crop treated or anticipated residue data available.

^bAnalysis based on tolerances adjusted for percent crop treated.

^cAnalysis based on tolerances adjusted for percent crop treated and anticipated residue.

Table 1b

Commodity Contribution To Oncogenic Risk From HCB
Contamination of Chlorothalonil

| COMMODITY | ONCOGENIC RISK (U.S.) $\times 10^{-6}$ |
|-----------------------------------|--|
| Tomatoes ^b | 3.7 |
| Soybeans ^a | 3.5 |
| Root/Tuber Veggies ^b | 0.94 |
| Legumes, ex. soybean ^b | 0.71 |
| Celery ^b | 0.31 |
| Onions/Garlic ^b | 0.28 |
| Stone Fruits ^b | 0.19 |
| Cole Crops ^b | 0.19 |
| Cucurbits ^b | 0.14 |
| Sweet Corn ^b | 0.12 |
| Cranberries ^b | 0.017 |
| Miscellaneous | 0.16 |
| Total | 10×10^{-6} $= 1 \times 10^{-5}$ |

^aAnalysis based on anticipated residue values (no percent crop treated data available).

^bAnalysis based on anticipated residue values factored by percent crop treated.

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

| CHEMICAL INFORMATION | | STUDY TYPE | EFFECTS | REFERENCE DOSES | DATA GAPS/COMMENTS | | STATUS |
|----------------------|--------------------|---|--|--|---|--|--------|
| Chlorothalonil | Caswell #215B | 2yr feeding - dog NOEL= 1.5000 mg/kg LEL= 60.00 ppm | Renal tubular vacuolization. | PADI 100 OPP RFD= 0.015000 EPA RFD= 0.015000 | Rabbit teratology (Core-Supplementary). | TOX complete 3/14/86. EPA verified 4/8/86. WHO last reviewed 1987. | |
| CAS No. 1897-45-6 | A.I. CODE: 08.1901 | LEL= 3.0000 mg/kg CFR No. 180.275 | Evidence of oncogenicity in rats and mice (kidney) | WHO RFD 0.003000 Type: TADI | Q* calculated. | | |
| | | ONCO: C1 Class B2 (TOX NOTE) | | | | On IRIS. | |

| POPULATION SUBGROUP | TOTAL TMRC (MG/KG BODY WEIGHT/DAY) | | NEW TMRC | | DIFFERENCE AS PERCENT OF RFD | | EFFECT OF ANTICIPATED RESIDUES | |
|--|------------------------------------|------------|-------------------|-------------|------------------------------|-----------|--------------------------------|------|
| | CURRENT TMRC* | NEW TMRC** | AS PERCENT OF RFD | (MG/KG/DAY) | ARC | %RED | ARC | %RED |
| U.S. POPULATION - 48 STATES | 0.012609 | 0.012609 | 84.063260 | 0.000000 | 0.000838 | 5.584687 | | |
| U.S. POPULATION - SPRING SEASON | 0.012335 | 0.012335 | 82.235187 | 0.000000 | 0.000814 | 5.426700 | | |
| U.S. POPULATION - SUMMER SEASON | 0.014354 | 0.014354 | 95.690233 | 0.000000 | 0.000921 | 6.137787 | | |
| U.S. POPULATION - FALL SEASON | 0.012029 | 0.012029 | 80.196120 | 0.000000 | 0.000799 | 5.324947 | | |
| U.S. POPULATION - WINTER SEASON | 0.011706 | 0.011706 | 78.041820 | 0.000000 | 0.000818 | 5.452133 | | |
| NORTHEAST REGION | 0.012814 | 0.012814 | 85.429900 | 0.000000 | 0.000899 | 5.995160 | | |
| NORTH CENTRAL REGION | 0.012712 | 0.012712 | 84.744387 | 0.000000 | 0.000806 | 5.374907 | | |
| SOUTHERN REGION | 0.011687 | 0.011687 | 77.913340 | 0.000000 | 0.000727 | 4.848320 | | |
| WESTERN REGION | 0.013758 | 0.013758 | 91.722033 | 0.000000 | 0.000993 | 6.617573 | | |
| HISPANICS | 0.012588 | 0.012588 | 83.922953 | 0.000000 | 0.000835 | 5.567840 | | |
| NON-HISPANIC WHITES | 0.012977 | 0.012977 | 86.512847 | 0.000000 | 0.000869 | 5.793033 | | |
| NON-HISPANIC BLACKS | 0.010032 | 0.010032 | 66.876733 | 0.000000 | 0.000620 | 4.135760 | | |
| NON-HISPANIC OTHERS | 0.014167 | 0.014167 | 94.445707 | 0.000000 | 0.000987 | 6.576847 | | |
| NURSING INFANTS (< 1 YEAR OLD) | 0.006351 | 0.006351 | 42.338580 | 0.000000 | 0.000736 | 4.907920 | | |
| NON-NURSING INFANTS (< 1 YEAR OLD) | 0.015674 | 0.015674 | 104.495627 | 0.000000 | 0.001561 | 10.408807 | | |
| FEMALES (13+ YEARS, PREGANT) | 0.010286 | 0.010286 | 68.571260 | 0.000000 | 0.000655 | 4.367527 | | |
| FEMALES 13+ YEARS, NURSING | 0.012008 | 0.012008 | 80.055707 | 0.000000 | 0.000912 | 6.083320 | | |
| CHILDREN (1-6 YEARS OLD) | 0.022415 | 0.022415 | 149.432887 | 0.000000 | 0.001352 | 9.010153 | | |
| CHILDREN (7-12 YEARS OLD) | 0.017967 | 0.017967 | 119.779633 | 0.000000 | 0.001059 | 7.060913 | | |
| MALES (13-19 YEARS OLD) | 0.012309 | 0.012309 | 82.061260 | 0.000000 | 0.000705 | 4.597833 | | |
| FEMALES (13-19 YEARS OLD, NOT PREG. OR NURS.) | 0.011108 | 0.011108 | 74.051567 | 0.000000 | 0.000691 | 4.606153 | | |
| MALES (20 YEARS AND OLDER) | 0.010222 | 0.010222 | 68.148180 | 0.000000 | 0.000696 | 4.641073 | | |
| FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS.) | 0.010616 | 0.010616 | 70.775300 | 0.000000 | 0.000779 | 5.192873 | | |

*Current TMRC does not include new or pending tolerances.

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

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 215B

DATE: 04/08/88

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| CHEMICAL | STUDY TYPE | EFFECTS | REFERENCE DOSES | | DATA GAP(S)/COMMENTS | | TOX complete 3/14/86. | STATUS |
|---------------------------|---------------------------|--|-----------------|--------------------|------------------------------|--|-----------------------|---|
| | | | PADI | OPP RED= 0.015000 | EPA RED= 0.015000 | Rabbit teratology (Core-Supplementary). | WHO RED 0.003000 | EPA verified 4/8/86. WHO last reviewed 1987. |
| Chlorothalonil | 2yr feeding-dog | Renal tubular vacuolization. | 2E2939 | P 5.000000 | 5.000000 | | | |
| CAS No. 1891-45-6 | NOEL= 1.5000 mg/kg | | 2E2939 | P 5.000000 | 5.000000 | | | |
| A.I. CODE: 081901 | LEL= 60.00 ppm | | 2E2939 | P 5.000000 | 5.000000 | | | |
| CFR No. 180.275 | LEL= 3.0000 mg/kg | Evidence of oncogenicity in rats and mice (kidney) | 2E2939 | P 5.000000 | 5.000000 | | | |
| | LEL= 120.00 ppm | | 2E2939 | P 5.000000 | 5.000000 | | | |
| ONTO: Class B2 (TOX NOTE) | ONTO: Class B2 (TOX NOTE) | Q* calculated. | Q* | | | | | |
| | | On IRIS. | | | | | | |
| FOOD CODE | FOOD | FOOD FORM | PET.# | TOLERANCE (ppm) | ANTICIPATED RESIDUE (ppm) | AR TYPE | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |
| 01010AA | CRANBERRIES | 10 RAW-FRESH OR NFS 21 COOKED-NFS | 2E2939 | P 5.000000 | 5.000000 | | | 10.00 |
| 01010AA | CRANBERRIES | 31 COOKED-FRESH OR CANNED | 2E2939 | P 5.000000 | 5.000000 | | | 10.00 |
| 01010AA | CRANBERRIES | 15 RAW-FRESH OR CANNED | 2E2939 | P 5.000000 | 5.000000 | | | 10.00 |
| 01010JA | CRANBERRY-JUICE | 31 COOKED-FRESH OR CANNED | 2E2939 | P 5.000000 | 5.000000 | | | 10.00 |
| 01010JA | CRANBERRY-JUICE | 10 RAW-FRESH OR NFS | 3F1382 | P 0.500000 | 0.500000 | | | 10.00 |
| 05001AA | APRICOTS-FRESH | 21 COOKED-NFS | 3F1382 | P 0.500000 | 0.500000 | | | 10.00 |
| 05001AA | APRICOTS-FRESH | 31 COOKED-FRESH OR CANNED | 3F1382 | P 0.500000 | 0.500000 | | | 10.00 |
| 05001AA | APRICOTS-FRESH | 10 RAW-FRESH OR NFS | 3F1382 | P 0.500000 | 0.500000 | | | 10.00 |
| 05001DA | APRICOTS-DRIED | 22 COOKED-FRESH-BAKED | 3F1382 | P 0.500000 | 0.500000 | | | 10.00 |
| 05001DA | APRICOTS-DRIED | 10 RAW-FRESH OR NFS | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05002AA | CHEERIES-FRESH | 21 COOKED-NFS | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05002AA | CHEERIES-FRESH | 31 COOKED-FRESH OR CANNED | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05002AA | CHEERIES-FRESH | 62 COOKED-FRESH OR FROZEN-BAKED 00 NOT SPECIFIED (NO CONSUMPTION) | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05002DA | CHEERIES-DRIED | 00 NOT SPECIFIED (NO CONSUMPTION) | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05002JA | CHEERIES-JUICE | 15 RAW-FRESH OR CANNED | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05002TA | CHEERIES-FRESH | 21 COOKED-NFS | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05003AA | NECTARINES | 10 RAW-FRESH OR NFS | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05004AA | PEACHES-FRESH | 10 RAW-FRESH OR NFS | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05004AA | PEACHES-FRESH | 21 COOKED-NFS | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05004AA | PEACHES-FRESH | 31 COOKED-FRESH OR CANNED | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05004AA | PEACHES-FRESH | 51 COOKED-CANNED | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05004DA | PEACHES-DRIED | 10 RAW-FRESH OR NFS | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05004DA | PEACHES-DRIED | 21 COOKED-NFS | SF3183 | P 0.500000 | 0.500000 | | | 10.00 |
| 05005AA | PLUMS-FRESH | 10 RAW-FRESH OR NFS | 2F2602 | P 0.200000 | 0.200000 | | | 10.00 |
| 05005AA | PLUMS-FRESH | 31 COOKED-FRESH OR CANNED | 2F2602 | P 0.200000 | 0.200000 | | | 10.00 |
| 05005AA | PLUMS-PRUNES | 10 RAW-FRESH OR NFS | 2F2602 | P 0.200000 | 0.200000 | | | 10.00 |
| 05005DA | PLUMS-PRUNES | 21 COOKED-NFS | 2F2602 | P 0.200000 | 0.200000 | | | 10.00 |
| 05005DA | PLUMS-PRUNES | 31 COOKED-FRESH OR CANNED | 2F2602 | P 0.200000 | 0.200000 | | | 10.00 |
| 05005JA | PRUNE-JUICE | 10 RAW-FRESH OR NFS | 2F2602 | P 0.200000 | 0.200000 | | | 10.00 |
| 05005JA | PRUNE-JUICE | 62 COOKED-FRESH OR FROZEN-BAKED | 2F2602 | P 0.200000 | 0.200000 | | | 10.00 |
| 06002AA | BANANAS-UNSPEC | 22 COOKED-FRESH-BAKED | 8F2067 | P 0.050000 | 0.050000 | | | 10.00 |
| 06002AB | BANANAS-FRESH | 10 RAW-FRESH OR NFS | 8F2067 | P 0.050000 | 0.050000 | | | 10.00 |
| 06002AB | BANANAS-FRESH | 21 COOKED-NFS | 8F2067 | P 0.050000 | 0.050000 | | | 10.00 |
| 06002AB | BANANAS-FRESH | 31 COOKED-FRESH OR CANNED | 8F2067 | P 0.050000 | 0.050000 | | | 10.00 |
| 06002DA | BANANAS-DRIED | 10 RAW-FRESH OR NFS | 8F2067 | P 0.050000 | 0.050000 | | | 10.00 |
| 06002DA | BANANAS-DRIED | 21 COOKED-NFS | 8F2067 | P 0.050000 | 0.050000 | | | 10.00 |
| 06010AA | PAPAYAS-UNSPEC | 00 NOT SPECIFIED (NO CONSUMPTION) | 6E1761 | P 15.000000 | 15.000000 | | | 1.500000 |
| 06010AB | PAPAYAS-PULP | 10 RAW-FRESH OR NFS | 6E1761 | P 15.000000 | 15.000000 | | | 1.500000 |
| 06010AB | PAPAYAS-PULP | 51 COOKED-CANNED | 6E1761 | P 15.000000 | 15.000000 | | | 1.500000 |

ANTICIPATED RESIDUE INFORMATION FOR CASHMILL NUMBER 215B

DATE: 04/08/88

PAGE: 2

| CHEMICAL | STUDY TYPE | EFFECTS | REFERENCE DOSES | DATA GAPS/COMMENTS | STATUS |
|---|---|--|--|---|--|
| | | | | | |
| Chlorothalonil Cashmill #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275 | 2yr feeding- dog NOEL= 1.5000 mg/kg LEL= 60.00 ppm LEL= 3.0000 mg/kg LEL= 120.00 ppm ONCO: Class B2 (TOX NOTE) | Renal tubular vacuolization. Evidence of oncogenicity in rats and mice (kidney) | PADI 100 OPP RFD= 0.015000 EPA RFD= 0.015000 WHO RFD 0.003000 Type: TADI Q* calculated. | Rabbit teratology (core-supplementary). | TOX complete 3/14/86. EPA verified 4/8/86. WHO last reviewed 1987. On IRIS. |
| FOOD CODE | FOOD | FOOD FORM | PET. # | TOLERANCE (ppm) | ANTICIPATED RESIDUE (ppm) |
| | | | | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |
| 06010DA | BAPAYAS-DRIED | 10 RAW-FRESH OR NFS 10 RAW-FRESH OR NFS | 6E1761 | P 15.000000 | 15.000000 |
| 06010JA | BAPAYAS-JUICE | 00 NOT SPECIFIED (NO CONSUMPTION) | 631761 | P 15.000000 | 15.000000 |
| 06014AA | PASSION FRUIT | 21 COOKED-NFS | SE1569 | P 3.000000 | 3.000000 |
| 06016AA | PLANTAINS | 23 COOKED-FRESH-BOILED | 8F2067 | P 0.050000 | 0.050000 |
| 06016AA | PLANTAINS | 25 COOKED-FRESH-FRIED | 8F2067 | P 0.050000 | 0.050000 |
| 06016AA | PLANTAINS | 21 COOKED-NFS | 2E2744 | P 0.050000 | 0.050000 |
| 07001FA | COCOA BUTTER | 10 RAW-FRESH OR NFS | 2E2744 | P 0.050000 | 0.050000 |
| 07001SA | CHOCOLATE | 21 COOKED-NFS | 2E2744 | P 0.050000 | 0.050000 |
| 07001SA | CHOCOLATE | 22 COOKED-FRESH-BAKED | 2E2744 | P 0.050000 | 0.050000 |
| 07001SA | COFFEE | 21 COOKED-NFS | 2E2744 | P 0.200000 | 0.200000 |
| 07002AA | CANTALOUPE-S-INSPI | 00 NOT SPECIFIED (NO CONSUMPTION) | IF1024 | P 5.000000 | 0.200000 |
| 10002AB | CANTALOUPE-S-PULP | 10 RAW-FRESH OR NFS | IF1024 | P 5.000000 | 0.200000 |
| 10002AB | CANTALOUPE-S-PULP | 21 COOKED-NFS | IF1024 | P 5.000000 | 0.200000 |
| 10003AB | CASABAS | 10 RAW-FRESH OR NFS | IF1024 | P 5.000000 | 0.200000 |
| 10003AA | CASABAS | 00 NOT SPECIFIED (NO CONSUMPTION) | IF1024 | P 5.000000 | 0.200000 |
| 10004AA | CRENSHAW'S | 10 RAW-FRESH OR NFS | IF1024 | P 5.000000 | 0.200000 |
| 10005AA | HONEYDEW MELONS | 10 RAW-FRESH OR NFS | IF1024 | P 5.000000 | 0.200000 |
| 10007AA | PERSIM MELONS | 00 NOT SPECIFIED (NO CONSUMPTION) | IF1024 | P 5.000000 | 0.200000 |
| 10008AA | WATERMELON | 10 RAW-FRESH OR NFS | IF1024 | P 5.000000 | 0.200000 |
| 10008AA | WATERMELON | 21 COOKED-NFS | IF1024 | P 5.000000 | 0.200000 |
| 10010AA | CUCUMBERS | 10 RAW-FRESH OR NFS | IF1024 | P 5.000000 | 0.200000 |
| 10010AA | CUCUMBERS | 11 RAW-FRESH-PICKLED, CORNED, OR CURED | IF1024 | P 5.000000 | 0.200000 |
| 10010AA | CUCUMBERS | 21 COOKED-NFS | IF1024 | P 5.000000 | 0.200000 |
| 10011AA | PUMPKIN | 21 COOKED-FRESH-BAKED | IF1024 | P 5.000000 | 0.200000 |
| 10011AA | PUMPKIN | 62 COOKED-FRESH OR FROZEN-BAKED | IF1024 | P 5.000000 | 0.200000 |
| 10011AA | PUMPKIN | 21 COOKED-FRESH OR CANNED | IF1024 | P 5.000000 | 0.200000 |
| 10013AA | SQUASH-SUMMER | 10 RAW-FRESH OR NFS | IF1024 | P 5.000000 | 0.200000 |
| 10013AA | SQUASH-SUMMER | 21 COOKED-NFS | IF1024 | P 5.000000 | 0.200000 |
| 10014AA | SQUASH-WINTER | 10 RAW-FRESH OR NFS | IF1024 | P 5.000000 | 0.200000 |
| 10014AA | SQUASH-WINTER | 21 COOKED-NFS | IF1024 | P 5.000000 | 0.200000 |
| 10014AA | SQUASH-WINTER | 31 COOKED-FRESH OR CANNED | IF1024 | P 5.000000 | 0.200000 |
| 10017AA | BITTER MELON | 21 COOKED-NFS | IF1024 | P 5.000000 | 0.200000 |
| 10020AA | TOWELGOURD | 00 NOT SPECIFIED (NO CONSUMPTION) | IF1024 | P 5.000000 | 0.200000 |
| 11005AA | TOMATOES-WHOLE | 10 RAW-FRESH OR NFS | IF1024 | P 5.000000 | 0.200000 |
| 11005AA | TOMATOES-WHOLE | 21 COOKED-NFS | IF1024 | P 5.000000 | 0.200000 |
| 11005AA | TOMATOES-WHOLE | 31 COOKED-FRESH OR CANNED | IF1024 | P 5.000000 | 0.200000 |
| 11005AA | TOMATOES-JUICE | 10 RAW-FRESH OR NFS | IF1024 | P 5.000000 | 0.200000 |
| 11005JA | TOMATOES-JUICE | 21 COOKED-NFS | IF1024 | P 5.000000 | 0.200000 |
| 11005JA | TOMATOES-PUREE | 10 RAW-FRESH OR NFS | IF1024 | P 5.000000 | 0.200000 |
| 11005RA | TOMATOES-PUREE | 21 COOKED-NFS | IF1024 | P 5.000000 | 0.200000 |

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 215B

DATE : 04/08/88

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| STUDY TYPE | EFFECTS | REFERENCE DOSES | DATA GAPS/COMMENTS | STATUS |
|--|---|--|---|--|
| 2yr feeding- dog NOEL= 1.5000 mg/kg DPM= 60.00 DPM | Renal tubular vacuolization. | PADI 100 OPP RfD: 0.015000 EPA RfD: 0.015000 | Rabbit teratology (Core+Supplementary). | TOX complete 3/14/86. EPA verified 4/8/86. WHO last reviewed 1987. |
| LEL= 3.0000 mg/kg | Evidence of oncogenicity in rats and mice (kidney) | WHO RfD 0.0030000 Type: TADI | Q* calculated. | On IRIS. |
| ONCO: Class B2 (TOX WOTE) | | | | |

| FOOD CODE | FOOD | FOOD FORM | FOOD FORM | PET. # | TOLERANCE (ppm) | ANTICIPATED RESIDUE (ppm) | AR TYPE | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |
|-----------|-------------------|--|-----------|--------|--------------------|------------------------------|---------|----------------|-------------------------------------|
| 11005RA | TOMATOES-PUREE | 31 COOKED-FRESH OR CANNED | | 1F1024 | P 5.00000 | 0.010000 | | | 0.005000 |
| 11005RA | TOMATOES-PUREE | 32 COOKED-FRESH OR CANNED-BAKED | | 1F1024 | P 5.00000 | 0.010000 | | | 0.005000 |
| 11005RA | TOMATOES-PUREE | 51 COOKED-CANNED | | 1F1024 | P 5.00000 | 0.010000 | | | 0.005000 |
| 11005TA | TOMATOES-PASTE | 21 COOKED-NFS | | 1F1024 | P 5.00000 | 0.010000 | | | 0.005000 |
| 11005TA | TOMATOES-PASTE | 22 COOKED-FRESH-BAKED | | 1F1024 | P 5.00000 | 0.010000 | | | 0.005000 |
| 11005TA | TOMATOES-PASTE | 31 COOKED-FRESH OR CANNED | | 1F1024 | P 5.00000 | 0.010000 | | | 0.005000 |
| 11005UA | TOMATOES-CATSUP | 21 COOKED-NFS | | 1F1024 | P 5.00000 | 0.010000 | | | 0.005000 |
| 13002AA | CELEREV | 10 RAW-FRESH OR NFS | | 7F0599 | P 15.00000 | 2.000000 | | | 2.000000 |
| 13002AA | CELEREV | 21 COOKED-NFS | | 7F0599 | P 15.00000 | 2.000000 | | | 2.000000 |
| 13005AA | BROCCOLI | 21 COOKED-NFS | | 7F0599 | P 5.00000 | 5.000000 | | | 1.500000 |
| 13005AA | BROCCOLI | 31 COOKED-FRESH OR CANNED | | 7F0599 | P 5.00000 | 5.000000 | | | 1.500000 |
| 13005AA | BROCCOLI | 63 COOKED-FRESH OR FROZEN-BOILED | | 7F0599 | P 5.00000 | 5.000000 | | | 4.250000 |
| 13006AA | BRUSSEL SPROUTS | 21 COOKED-NFS | | 7F0599 | P 5.00000 | 5.000000 | | | 4.250000 |
| 13006AA | BRUSSEL SPROUTS | 23 COOKED-FRESH-BOILED | | 7F0599 | P 5.00000 | 5.000000 | | | 4.250000 |
| 13007AA | CABBAGE | 10 RAW-FRESH OR NFS | | 7F0599 | P 5.00000 | 5.000000 | | | 0.500000 |
| 13007AA | CABBAGE | 11 RAW-FRESH-PICKLED, CORNED, OR CURED | | 7F0599 | P 5.00000 | 2.000000 | | | 0.200000 |
| 13007AA | CABBAGE | 21 COOKED-NFS | | 7F0599 | P 5.00000 | 5.000000 | | | 0.200000 |
| 13008AA | CAULIFLOWER | 10 RAW-FRESH OR NFS | | 7F0599 | P 5.00000 | 5.000000 | | | 0.200000 |
| 13008AA | CAULIFLOWER | 21 COOKED-NFS | | 7F0599 | P 5.00000 | 5.000000 | | | 0.200000 |
| 13010AA | CABBAGE-CHINESE | 10 RAW-FRESH OR NFS | | 7F0599 | P 5.00000 | 2.000000 | | | 0.200000 |
| 13010AA | CABBAGE-CHINESE | 21 COOKED-NFS | | 7F0599 | P 15.00000 | 2.000000 | | | 0.200000 |
| 13016AA | FENNEL | 00 NOT SPECIFIED (NO CONSUMPTION) | | 7E1887 | P 1.00000 | 1.000000 | | | 0.400000 |
| 14003AA | CARROTS | 10 RAW-FRESH OR NFS | | 7E1887 | P 1.00000 | 1.000000 | | | 0.400000 |
| 14003AA | CARROTS | 21 COOKED-NFS | | 7E1887 | P 1.00000 | 1.000000 | | | 0.400000 |
| 14003AA | CARROTS | 23 COOKED-FRESH-BOILED | | 7E1887 | P 1.00000 | 1.000000 | | | 0.400000 |
| 14003AA | CARROTS | 31 COOKED-FRESH OR CANNED | | 7E1887 | P 1.00000 | 1.000000 | | | 0.400000 |
| 14003AA | CARROTS | 51 COOKED-CANNED | | 7E1887 | P 1.00000 | 1.000000 | | | 0.400000 |
| 14007AA | GARLIC | 10 RAW-FRESH OR NFS | | 4E1502 | P 0.50000 | 0.500000 | | | 0.500000 |
| 14007AA | GARLIC | 21 COOKED-NFS | | 4E1502 | P 0.50000 | 0.500000 | | | 0.500000 |
| 14007AA | GARLIC | 32 COOKED-FRESH OR CANNED-BAKED | | 4E1502 | P 0.50000 | 0.500000 | | | 0.500000 |
| 14011AA | ONIONS-DRY-BULB | 10 RAW-FRESH OR NFS | | 4E1502 | P 0.50000 | 0.500000 | | | 0.250000 |
| 14011AA | ONIONS-DRY-BULB | 21 COOKED-NFS | | 4E1502 | P 0.50000 | 0.500000 | | | 0.250000 |
| 14011AA | ONIONS-DRY-BULB | 22 COOKED-FRESH-BAKED | | 4E1502 | P 0.50000 | 0.500000 | | | 0.250000 |
| 14011AA | ONIONS-DRY-BULB | 31 COOKED-FRESH OR CANNED | | 4E1502 | P 0.50000 | 0.500000 | | | 0.250000 |
| 14011DA | ONIONS-DRIED | 12 RAW-FRESH-DRIED | | 9F0743 | P 0.10000 | 0.100000 | | | 0.010000 |
| 14013AA | POTATO (WH)-WHOLE | 10 RAW-FRESH OR NFS | | 9F0743 | P 0.10000 | 0.100000 | | | 0.010000 |
| 14013AA | POTATO (WH)-WHOLE | 21 COOKED-NFS | | 9F0743 | P 0.10000 | 0.100000 | | | 0.010000 |
| 14013AB | POTATO (WH)-UNSP | 22 COOKED-FRESH-BAKED | | 9F0743 | P 0.10000 | 0.100000 | | | 0.010000 |
| 14013AC | POTATO (WH)-PULP | 21 COOKED-NFS | | 9F0743 | P 0.10000 | 0.100000 | | | 0.010000 |

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 215B

DATE: 04/08/88

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| CHEMICAL | STUDY TYPE | EFFECTS | REFERENCE DOSES | | DATA GAPS/COMMENTS | TOX complete 3/14/86. EPA verified 4/8/86. WHO last reviewed 1987. |
|--|--|--|---|--|---------------------------|--|
| | | | PADI | OPP RFD= 0.015000 EPA RFD= 0.015000 | | |
| Chlorothalonil Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275 | 2yr feeding-dog NOEL= 1.5000 mg/kg LEL= 60.00 ppm LEL= 3.0000 mg/kg LEL= 120.00 ppm ONCO: Class B2 (TOX NOTE) | Renal tubular vacuolization. Evidence of oncogenicity in rats and mice (Kidney) | PADI 100 OPP RFD= 0.015000 EPA RFD= 0.015000 WHO RFD 0.003000 Type: TADI Q* calculated. | (Core-Supplementary). | Rabbit teratology | |
| FOOD CODE | FOOD | FOOD FORM | PET. # | TOLERANCE (ppm) | ANTICIPATED RESIDUE (ppm) | AR TYPE % CROP TREATED RES. VALUE USED IN TAS RUN (ppm) |
| 14013AC | POTATO (WH)-PULP | 22 COOKED-FRESH-BAKED | 9F0743 | P 0.100000 | 0.100000 | 10.00 0.010000 |
| 14013AC | POTATO (WH)-PULP | 23 COOKED-FRESH-BOILED | 9F0743 | P 0.100000 | 0.100000 | 10.00 0.010000 |
| 14013AC | POTATO (WH)-PULP | 25 COOKED-FRESH-FRIED | 9F0743 | P 0.100000 | 0.100000 | 10.00 0.010000 |
| 14013DA | POTATO (WH)-DRY | 10 RAW-FRESH OR NFS | 9F0743 | P 0.100000 | 0.100000 | 10.00 0.010000 |
| 14013DA | POTATO (WH)-DRY | 31 COOKED-FRESH OR CANNED | 9F0743 | P 0.100000 | 0.100000 | 10.00 0.010000 |
| 14013DA | POTATO (WH)-DRY | 22 COOKED-FRESH-BAKED | 9F0743 | P 0.100000 | 0.100000 | 10.00 0.010000 |
| 14013HA | POTATO (WH)-PEEL | 22 COOKED-FRESH-BAKED | 4E1502 | P 0.500000 | 0.500000 | 50.00 0.250000 |
| 14017AA | SHALLOTS | 00 NOT SPECIFIED (NO CONSUMPTION) | 7E1887 | P 1.000000 | 1.000000 | 10.00 1.000000 |
| 14021AA | PARSNIPS | 21 COOKED-NFS | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15001AA | BEANS-DRY-GRT NO | 00 NOT SPECIFIED (NO CONSUMPTION) | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15001AB | BEANS-DRY-KIDNEY | 21 COOKED-NFS | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15001AB | BEANS-DRY-KIDNEY | 31 COOKED-FRESH OR CANNED | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15001AB | BEANS-DRY-LIMA | 21 COOKED-NFS | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15001AC | BEANS-DRY-NAVY | 21 COOKED-NFS | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15001AD | BEANS-DRY-NAVY | 31 COOKED-FRESH OR CANNED | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15001AD | BEANS-DRY-NAVY | 21 COOKED-NFS | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15001AE | BEANS-DRY-OTHER | 21 COOKED-NFS | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15001AE | BEANS-DRY-OTHER | 25 COOKED-FRESH-FRIED | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15001AE | BEANS-DRY-OTHER | 31 COOKED-FRESH OR CANNED | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15001AF | BEANS-DRY-PINTO | 21 COOKED-NFS | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15003AA | BEANS-SUCC-GREEN | 21 COOKED-NFS | 1E1024 | P 5.000000 | 0.100000 | 25.00 0.025000 |
| 15005AA | CORN, SWEET | 10 RAW-FRESH OR NFS | 7E0599 | P 1.000000 | 1.000000 | 10.00 0.100000 |
| 15005AA | CORN, SWEET | 21 COOKED-NFS | 7E0599 | P 1.000000 | 1.000000 | 10.00 0.100000 |
| 15005AA | CORN, SWEET | 31 COOKED-FRESH OR CANNED | 7E0599 | P 1.000000 | 1.000000 | 10.00 0.100000 |
| 15005AA | MUNG BEANS | 10 RAW-FRESH OR NFS | 1E1024 | P 0.300000 | 0.300000 | 70.00 0.210000 |
| 15005AA | MUNG BEANS | 21 COOKED-NFS | 1E1024 | P 0.300000 | 0.300000 | 70.00 0.210000 |
| 15005AA | PEANUTS-WHOLE | 10 RAW-FRESH OR NFS | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15005AA | PEANUTS-WHOLE | 21 COOKED-NFS | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15005AA | PEANUTS-WHOLE | 22 COOKED-FRESH-BAKED | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15005AA | SOYBEAN-SPROUTED | 00 NOT SPECIFIED (NO CONSUMPTION) | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15031AA | MUNG BEANS | 10 RAW-FRESH OR NFS | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15031AA | MUNG BEANS | 21 COOKED-NFS | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15022AA | BEANS-DRY-BROAD | 00 NOT SPECIFIED (NO CONSUMPTION) | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15023AA | BEANS-DRY-TIGEON | 21 COOKED-NFS | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15029AA | SOYBEAN-SPROUTED | 00 NOT SPECIFIED (NO CONSUMPTION) | 4F2980 | P 0.200000 | 0.200000 | 100.00 0.200000 |
| 15030AA | BEANS-DRY-HYAC | 00 NOT SPECIFIED (NO CONSUMPTION) | 4E1502 | P 5.000000 | 5.000000 | 50.00 0.250000 |
| 15031AA | BILKEYE PEAS-DRY | 21 COOKED-NFS | 4F2980 | P 0.100000 | 0.100000 | 25.00 0.025000 |
| 15032AA | BEANS-DRY | 21 COOKED-FRESH OR CANNED | 4F2980 | P 0.100000 | 0.100000 | 50.00 0.250000 |
| 15032AA | ONIONS-GREEN | 10 RAW-FRESH OR NFS | 4E1502 | P 5.000000 | 5.000000 | 50.00 0.250000 |
| 16004AA | ONIONS-GREEN | 21 COOKED-NFS | 4E1502 | P 5.000000 | 5.000000 | 50.00 0.250000 |
| 16004AA | ONIONS-GREEN | 25 COOKED-FRESH-FRIED | 4E1502 | P 5.000000 | 5.000000 | 70.00 0.210000 |
| 27007OA | PEANUTS-OIL | 18 PROCESSED OIL | 1F1024 | P 0.300000 | 0.300000 | 100.00 0.200000 |
| 27010QA | SOYBEANS-OIL | 18 PROCESSED OIL | 6F1799 | P 0.200000 | 0.200000 | 100.00 0.200000 |
| 28023AA | SOYBEANS-UNSPEC | 21 COOKED-NFS | 6F1799 | P 0.200000 | 0.200000 | 100.00 0.200000 |

ANTICIPATED RESIDUE INFORMATION FOR CASINELL NUMBER 215B

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| CHEMICAL | STUDY TYPE | EFFECTS | REFERENCE DOSES | DATA GAPS/COMMENTS | STATUS |
|--|---|--|--|--|---|
| Chlorothalonil Caswell #215B CAS No. 1897-45-6 A.I. CODE: 081901 CFR No. 180.275 | 2yr feeding- dog NOEL= 1.5000 mg/kg LEL= 60.00 ppm LEL= 3.0000 mg/kg LEL= 120.00 ppm ONCO: Class B2 (TOX NOTE) | Renal tubular vacuolization. Evidence of oncogenicity in rats and mice (kidney) | PADI 100 OPP RfD= 0.015000 EPA RfD= 0.015000 WHO RfD 0.003000 Type: TADI Q* calculated. | Rabbit teratology (Core-Supplementary). WHO last reviewed 1987. | TOX complete 3/14/86. EPA verified 4/8/86. On IRIS. |

| FOOD CODE | FOOD | FOOD FORM | PET. # | TOLERANCE (ppm) | ANTICIPATED RESIDUE (ppm) | AR TYPE | % CROP TREATED | RES. VALUE USED IN TAS RUN (ppm) |
|-----------|------------------|-----------------------------------|--------|-----------------|---------------------------|---------|----------------|----------------------------------|
| 28023AB | SOYBEANS-DRY | 10 RAW-FRESH OR NFS | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 0.200000 |
| 28023AB | SOYBEANS-DRY | 21 COOKED-NFS | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 0.200000 |
| 28023AB | SOYBEANS-DRY | 23 COOKED-FRESH-BOILED | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 0.200000 |
| 28023AB | SOYBEANS-DRY | 25 COOKED-FRESH-FRIED | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 0.200000 |
| 28023AB | SOYBEANS-DRY | 31 COOKED-FRESH OR CANNED | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 0.200000 |
| 28023AB | SOY-FL, FULL FAT | 21 COOKED-NFS | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 0.200000 |
| 28023WA | SOY-FL, FULL FAT | 22 COOKED-FRESH-BAKED | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 0.200000 |
| 28023WA | SOY-FL, FULL FAT | 31 COOKED-FRESH OR CANNED | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 0.200000 |
| 28023WB | SOY-FL, LOW FAT | 21 COOKED-NFS | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 0.200000 |
| 28023WC | SOY-FL, DEFAT | 10 RAW-FRESH OR NFS | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 0.200000 |
| 28023WC | SOY-FL, DEFAT | 21 COOKED-NFS | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 0.200000 |
| 28023WC | SOY-FL, DEFAT | 22 COOKED-FRESH-BAKED | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 0.200000 |
| 28023WC | SOY-FL, DEFAT | 51 COOKED-CANNED | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 0.200000 |
| 28023WC | SOY-FL, DEFAT | 53 COOKED-CANNED-BOILED | 6F1799 | P 0.200000 | 0.200000 | | 100.00 | 2.000000 |
| 28080AA | PEPPERMINT-OIL | 00 NOT SPECIFIED (NO CONSUMPTION) | 1E2473 | P 2.000000 | 2.000000 | | 100.00 | 2.000000 |
| 28080QA | PEPPERMINT-OIL | 00 NOT SPECIFIED (NO CONSUMPTION) | 1E2473 | P 2.000000 | 2.000000 | | 100.00 | 2.000000 |
| 28081AA | SPERMANT-OIL | 00 NOT SPECIFIED (NO CONSUMPTION) | 1E2473 | P 2.000000 | 2.000000 | | 100.00 | 2.000000 |
| 28081QA | SPERMANT-OIL | 00 NOT SPECIFIED (NO CONSUMPTION) | 1E2473 | P 2.000000 | 2.000000 | | 100.00 | 2.000000 |

TOLERANCE ASSESSMENT SYSTEM' ROUTINE CHRONIC ANALYSIS

DATE: 04/07/88

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| CHEMICAL INFORMATION | |
|----------------------------|------------------------|
| Hexachlorobenzene | NOEL= 0.0000 mg/kg ppm |
| Caswell #999A | LEL= 0.0000 mg/kg ppm |
| CAS No. | A.I. CODE: |
| A.I. CODE: CFR No. 180. | ONCO: |

| STUDY TYPE | EFFECTS | REFERENCE DOSES | | DATA GAPS/COMMENTS | | STATUS |
|------------|---------|---|--|---|---|--------|
| | | THERE ARE NO TOLERANCES FOR HCB. THE LISTED TOLERANCES ARE FOR CHLOROTHALONIL. THE ANTICIPATED RESIDUES ARE HCB ANTICIPATED RESIDUES. | OPP RED= 0.010000 EFA RED= 0.000000 WHO RED 0.000000 | AN ADI IS REQUIRED FOR A TAS ANALYSIS. THERE IS NO ADI FOR HCB. THE ONE SHOWN IS NOT REAL, BUT WAS MADE UP IN ORDER TO CONDUCT ONCO RISK ASSESS.. | ALL EXPOSURE VALUES AS A PERCENT OF THE ADI ARE MEANINGLESS. THERE IS NO ADI FOR HCB. THE ADI ESTIMATE IS THE ONLY CONDUCT ONCO RISK ASSESS.. | |
| | | | | | | |

| POPULATION SUBGROUP | 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** |
| U.S. POPULATION - 48 STATES | 0.012609 | 0.012609 | 0.000000 | 0.000000 | 0.000000 |
| U.S. POPULATION - SPRING SEASON | 0.012335 | 0.012335 | 0.000000 | 123.352780 | 0.057890 |
| U.S. POPULATION - SUMMER SEASON | 0.014354 | 0.014354 | 0.000000 | 143.533550 | 0.062190 |
| U.S. POPULATION - FALL SEASON | 0.012029 | 0.012029 | 0.000000 | 120.294180 | 0.060510 |
| U.S. POPULATION - WINTER SEASON | 0.011706 | 0.011706 | 0.000000 | 117.062730 | 0.059910 |
| NORTHEAST REGION | 0.012814 | 0.012814 | 0.000000 | 128.144850 | 0.058630 |
| NORTH CENTRAL REGION | 0.012712 | 0.012712 | 0.000000 | 127.116580 | 0.061430 |
| SOUTHERN REGION | 0.011687 | 0.011687 | 0.000000 | 116.870100 | 0.056950 |
| WESTERN REGION | 0.013758 | 0.013758 | 0.000000 | 137.583050 | 0.065810 |
| HISPANICS | 0.012588 | 0.012588 | 0.000000 | 125.884430 | 0.066530 |
| NON-HISPANIC WHITES | 0.012977 | 0.012977 | 0.000000 | 129.769270 | 0.061410 |
| NON-HISPANIC BLACKS | 0.010032 | 0.010032 | 0.000000 | 100.315100 | 0.049030 |
| NON-HISPANIC OTHERS | 0.014167 | 0.014167 | 0.000000 | 141.668560 | 0.058200 |
| NURSING INFANTS (< 1 YEAR OLD) | 0.006351 | 0.006351 | 0.000000 | 63.507870 | 0.053110 |
| NON-NURSING INFANTS (< 1 YEAR OLD) | 0.015674 | 0.015674 | 0.000000 | 156.743440 | 0.159090 |
| FEMALES (13+ YEARS, PREGNANT) | 0.010286 | 0.010286 | 0.000000 | 102.856690 | 0.046230 |
| FEMALES (13+ YEARS, NURSING | 0.012008 | 0.012008 | 0.000000 | 120.085560 | 0.055870 |
| CHILDREN (1-6 YEARS OLD) | 0.022415 | 0.022415 | 0.000000 | 224.149330 | 0.115370 |
| CHILDREN (7-12 YEARS OLD) | 0.017967 | 0.017967 | 0.000000 | 179.669450 | 0.089050 |
| MALES (13-19 YEARS OLD) | 0.012309 | 0.012309 | 0.000000 | 123.091690 | 0.061510 |
| FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING) | 0.011108 | 0.011108 | 0.000000 | 111.077550 | 0.051990 |
| MALES (20 YEARS AND OLDER) | 0.010222 | 0.010222 | 0.000000 | 102.222720 | 0.047810 |
| FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS) | 0.010616 | 0.010616 | 0.000000 | 106.162550 | 0.045250 |

*Current TMRC does not include new or pending tolerances.

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

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 999A

DATE: 04/07/88

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| CHEMICAL | STUDY TYPE | FOOD CODE | FOOD | FOOD FORM | PET. # | REFERENCE DOSES | | DATA GAPS/COMMENTS | | RES. VALUE USED IN TAS RUN (PPM) | STATUS |
|-------------------|------------|-----------|-----------------|-----------------------------------|--------|---|--|---|--|-------------------------------------|--------|
| | | | | | | THERE ARE NO TOLERANCES FOR HCB. THE LISTED TOLERANCES ARE FOR CHLORTHALONIL. THE ANTICIPATED RESIDUES ARE HCB ANTICIPATED RESIDUES. | 0 OPP RED= 0.010000 EPA RED= 0.000000 WHO RED 0.000000 Type: | AN ADI IS REQUIRED FOR A TAS ANALYSIS. THERE IS NO ADI FOR HCB. THE ONE SHOWN IS NOT REAL, BUT WAS MADE UP IN ORDER TO CONDUCT ONCO RISK ASSESS. | ALL EXPOSURE VALUES AS A PERCENT OF THE ADI ARE MEANINGLESS. THERE IS NO ADI FOR HCB. THE ADI ESTIMATE IS THE ONLY VALID STATISTIC. | | |
| Hexachlorobenzene | | 01010AA | CRANBERRIES | 10 RAW-FRESH OR NFS | | 2E2939 | P 5.000000 | 0.003000 | 10.00 | 0.00300 | |
| Caswell #999A | | 01010AA | CRANBERRIES | 21 COOKED-NFS | | 2E2939 | P 5.000000 | 0.003000 | 10.00 | 0.00300 | |
| CAS. NO. | | 01010AA | CRANBERRIES | 31 COOKED-FRESH OR CANNED | | 2E2939 | P 5.000000 | 0.003000 | 10.00 | 0.00300 | |
| A. I. CODE: | | 01010JA | CRANBERRY-JUICE | 15 RAW-FRESH OR CANNED | | 2E2939 | P 5.000000 | 0.003000 | 10.00 | 0.00300 | |
| CFR No. 180. | | 01010JA | CRANBERRY-JUICE | 31 COOKED-FRESH OR CANNED | | 2E2939 | P 5.000000 | 0.003000 | 10.00 | 0.00300 | |
| ONCO: | | 05001AA | APRICOTS-FRESH | 10 RAW-FRESH OR NFS | | 3F1382 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05001AA | APRICOTS-FRESH | 21 COOKED-NFS | | 3F1382 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05001AA | APRICOTS-FRESH | 31 COOKED-FRESH OR CANNED | | 3F1382 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05001DA | APRICOTS-DRIED | 10 RAW-FRESH OR NFS | | 3F1382 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05001DA | APRICOTS-DRIED | 22 COOKED-FRESH-BAKED | | 3F1382 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05002AA | CHEERIES-FRESH | 10 RAW-FRESH OR NFS | | 5F3183 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05002AA | CHEERIES-FRESH | 21 COOKED-NFS | | 5F3183 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05002AA | CHEERIES-FRESH | 31 COOKED-FRESH OR CANNED | | 5F3183 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05002AA | CHEERIES-FRESH | 62 COOKED-FRESH OR FROZEN-BAKED | | 5F3183 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05002AA | CHEERIES-FRESH | 00 NOT SPECIFIED (NO CONSUMPTION) | | 5F3183 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05002AA | CHEERIES-FRESH | 15 RAW-FRESH OR CANNED | | 5F3183 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05002AA | CHEERIES-FRESH | 21 COOKED-NFS | | 5F3183 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05003AA | NECTARINES | 10 RAW-FRESH OR NFS | | 5F3183 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05004AA | PEACHES-FRESH | 10 RAW-FRESH OR NFS | | 5F3183 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05004AA | PEACHES-FRESH | 21 COOKED-NFS | | 5F3183 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05004AA | PEACHES-FRESH | 31 COOKED-FRESH OR CANNED | | 5F3183 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05004AA | PEACHES-FRESH | 51 COOKED-CANNED | | 5F3183 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05004AA | PEACHES-FRESH | 10 RAW-FRESH OR NFS | | 3F1382 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05004DA | PEACHES-DRIED | 21 COOKED-NFS | | 3F1382 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05005AA | PLUMS-FRESH | 10 RAW-FRESH OR NFS | | 3F1382 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05005AA | PLUMS-FRESH | 31 COOKED-FRESH OR CANNED | | 3F1382 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05005AA | PLUMS-FRESH | 62 COOKED-FRESH OR FROZEN-BAKED | | 3F1382 | P 0.500000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05005AA | PLUMS-PRUNES | 10 RAW-FRESH OR NFS | | 2F2602 | P 0.200000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05005DA | PLUMS-PRUNES | 21 COOKED-NFS | | 2F2602 | P 0.200000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05005DA | PLUMS-PRUNES | 31 COOKED-FRESH OR CANNED | | 2F2602 | P 0.200000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05005JA | PRUNE-JUICE | 10 RAW-FRESH OR NFS | | 2F2602 | P 0.200000 | 0.003000 | 10.00 | 0.00300 | |
| | | 05005JA | PRUNE-JUICE | 62 COOKED-FRESH OR FROZEN-BAKED | | 2F2602 | P 0.200000 | 0.003000 | 10.00 | 0.00300 | |
| | | 06002AA | BANANAS-JNSPEC | 22 COOKED-FRESH-BAKED | | 8F2067 | P 0.050000 | 0.003000 | 10.00 | 0.00300 | |
| | | 06002AB | BANANAS-FRESH | 10 RAW-FRESH OR NFS | | 8F2067 | P 0.050000 | 0.003000 | 10.00 | 0.00300 | |
| | | 06002AB | BANANAS-FRESH | 21 COOKED-NFS | | 8F2067 | P 0.050000 | 0.003000 | 10.00 | 0.00300 | |
| | | 06002AB | BANANAS-FRESH | 31 COOKED-FRESH OR CANNED | | 8F2067 | P 0.050000 | 0.003000 | 10.00 | 0.00300 | |
| | | 06002AB | BANANAS-DRIED | 10 RAW-FRESH OR NFS | | 8F2067 | P 0.050000 | 0.003000 | 10.00 | 0.00300 | |
| | | 06002DA | BANANAS-DRIED | 21 COOKED-NFS | | 6E1761 | P 15.00000 | 0.003000 | 10.00 | 0.00300 | |
| | | 06010AA | PAPAYAS-JNSPEC | 00 NOT SPECIFIED (NO CONSUMPTION) | | 6E1761 | P 15.00000 | 0.003000 | 10.00 | 0.00300 | |
| | | 06010AB | PAPAYAS-PULP | 10 RAW-FRESH OR NFS | | 6E1761 | P 15.00000 | 0.003000 | 10.00 | 0.00300 | |
| | | 06010AB | PAPAYAS-PULP | 51 COOKED-CANNED | | | | | | | |

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 999A

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 999A

| CHEMICAL | STUDY TYPE | DATA GAPS/COMMENTS | | | | REFERENCE DOSES | EFFECTS | RES. VALUE USED IN TAS RUN (ppm) | STATUS |
|-------------------|------------------|--------------------|--------------------------------|---------|------------|-----------------|---------|---|---|
| | | NOEL= | LEL= | CAS No. | A.I. CODE: | CFR No. 180. | ONCO: | THERE ARE NO TOLERANCES FOR HCB. THE LISTED TOLERANCES ARE FOR CHLOROTHALONIL. THE ANTICIPATED RESIDUES ARE HCB ANTICIPATED RESIDUES. | AN ADI IS REQUIRED FOR A. TAS ANALYSIS. THERE IS NO ADI FOR HCB. THE ONE SHOWN IS NOT REAL, BUT WAS MADE UP IN ORDER TO CONDUCT ONCO RISK ASSESS. |
| Hexachlorobenzene | POTATO (WH)-PULP | 22 | COOKED-FRESH-BAKED | 9F743 | P 0.100000 | 0.003000 | 10.00 | 0.000300 | |
| Caswell #999A | POTATO (WH)-PULP | 23 | COOKED-FRESH-BOILED | 9F743 | P 0.100000 | 0.003000 | 10.00 | 0.000300 | |
| CAS No. | POTATO (WH)-PULP | 25 | COOKED-FRESH-FRIED | 9F743 | P 0.100000 | 0.003000 | 10.00 | 0.000300 | |
| A.I. CODE: | POTATO (WH)-DRY | 10 | RAW-FRESH OR NFS | 9F743 | P 0.100000 | 0.003000 | 10.00 | 0.000300 | |
| CFR No. 180. | POTATO (WH)-DRY | 31 | COOKED-FRESH OR CANNED | 9F743 | P 0.100000 | 0.003000 | 10.00 | 0.000300 | |
| ONCO: | POTATO (WH)-PEEL | 22 | COOKED-FRESH-BAKED | 9F743 | P 0.100000 | 0.003000 | 50.00 | 0.001500 | |
| | SHALLOTS | 00 | NOT SPECIFIED (NO CONSUMPTION) | 4E1502 | P 0.000000 | 0.003000 | 100.00 | 0.003000 | |
| | PARSNIPS | 21 | COOKED-NFS | 7E1887 | P 1.000000 | 0.003000 | 25.00 | 0.000750 | |
| | PARSNIPS | 00 | NOT SPECIFIED (NO CONSUMPTION) | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-GRT | ND | COOKED-NFS | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-KIDNEY | 21 | COOKED-NFS | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-KIDNEY | 31 | COOKED-FRESH OR CANNED | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-LIMA | 21 | COOKED-NFS | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-LIMA | 21 | COOKED-NFS | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-NAVY | 31 | COOKED-FRESH OR CANNED | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-NAVY | 31 | COOKED-FRESH OR CANNED | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-OTHER | 21 | COOKED-NFS | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-OTHER | 25 | COOKED-FRESH-FRIED | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-OTHER | 31 | COOKED-FRESH OR CANNED | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-PINTO | 21 | COOKED-NFS | 1F1024 | P 5.000000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-SUCC-GREEN | 21 | COOKED-NFS | 7F0599 | P 1.000000 | 0.003000 | 10.00 | 0.000300 | |
| | CORN SWEET | 10 | RAW-FRESH OR NFS | 7F0599 | P 1.000000 | 0.003000 | 10.00 | 0.000300 | |
| | CORN, SWEET | 21 | COOKED-NFS | 7F0599 | P 1.000000 | 0.003000 | 70.00 | 0.002100 | |
| | CORN, SWEET | 31 | COOKED-FRESH OR CANNED | 1F1024 | P 0.300000 | 0.003000 | 70.00 | 0.002100 | |
| | PEANUTS-WHOLE | 10 | RAW-FRESH OR NFS | 1F1024 | P 0.300000 | 0.003000 | 70.00 | 0.002100 | |
| | PEANUTS-WHOLE | 21 | COOKED-NFS | 1F1024 | P 0.300000 | 0.003000 | 70.00 | 0.002100 | |
| | PEANUTS-WHOLE | 22 | COOKED-FRESH-BAKED | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | MUNG BEANS | 10 | RAW-FRESH OR NFS | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | MUNG BEANS | 21 | COOKED-NFS | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-BROAD | 00 | NOT SPECIFIED (NO CONSUMPTION) | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-PTGEON | 21 | COOKED-NFS | 6F1799 | P 0.200000 | 0.006000 | 100.00 | 0.006000 | |
| | SOYBEAN-SPROUT | 00 | NOT SPECIFIED (NO CONSUMPTION) | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | SOYBEAN-SPROUT | 00 | NOT SPECIFIED (NO CONSUMPTION) | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-HYAC | 00 | NOT SPECIFIED (NO CONSUMPTION) | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY-HYAC | 21 | COOKED-NFS | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BLKEYE PEAS-DRY | 21 | COOKED-NFS | 4F2980 | P 0.100000 | 0.003000 | 25.00 | 0.000750 | |
| | BEANS-DRY | 31 | COOKED-FRESH OR CANNED | 4F1502 | P 5.000000 | 0.003000 | 50.00 | 0.001500 | |
| | ONIONS-GREEN | 10 | RAW-FRESH OR NFS | 4F1502 | P 5.000000 | 0.003000 | 50.00 | 0.001500 | |
| | ONIONS-GREEN | 21 | COOKED-NFS | 4E1502 | P 5.000000 | 0.003000 | 70.00 | 0.002100 | |
| | ONIONS-GREEN | 25 | COOKED-FRESH-FRIED | 1F1024 | P 0.300000 | 0.003000 | 70.00 | 0.002100 | |
| | PEANUTS-OIL | 18 | PROCESSED OIL | 6F1799 | P 0.200000 | 0.006000 | 100.00 | 0.006000 | |
| | SOYBEANS-OIL | 18 | PROCESSED OIL | 2F023AA | SPEC | NONE | 100.00 | 0.006000 | |

ANTICIPATED RESIDUE INFORMATION FOR CASINELL NUMBER 999A

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| CHEMICAL | STUDY TYPE | EFFECTS | DATA GAP/COMMENTS | | | STATUS |
|-------------------|-------------------------------------|--|--|--|--|---------|
| | | | REFERENCE DOSES | OPP RFD= 0.010000 | AN ADI IS REQUIRED FOR A TAS ANALYSIS. THERE IS A PERCENT OF THE ADI ARE MEANINGLESS. THERE IS NO ADI FOR HCB. THE ONE SHOWN IS NOT REAL, BUT WAS MADE UP IN ORDER TO CONDUCT ONCO RISK ASSESS. | |
| Hexachlorobenzene | NOEL= 0.0000 mg/kg LEL= 0.00 ppm | THERE ARE NO TOLERANCES FOR HCB. THE LISTED TOLERANCES ARE FOR CHLOROTHALONIL. THE ANTICIPATED RESIDUES ARE HCB ANTICIPATED RESIDUES. | 0 EPA RFD= 0.000000 WHO RFD= 0.000000 Type: | OPP RFD= 0.010000 EPA RFD= 0.000000 WHO RFD= 0.000000 Type: | A PERCENT OF THE ADI ARE MEANINGLESS. THERE IS NO ADI FOR HCB. THE ONE SHOWN IS NOT REAL, BUT WAS MADE UP IN ORDER TO ESTIMATE IS THE ONLY VALID STATISTIC. | |
| FOOD CODE | FOOD | FOOD FORM | PET. # | ANTICIPATED TOLERANCE (ppm) | RESIDUE (ppm) | AR TYPE |
| 28023AB | SOYBEANS-DRY | 10 RAW-FRESH OR NFS 21 COOKED-NFS | 6F1799 | P 0.200000 | 0.006000 | 100.00 |
| 28023AB | SOYBEANS-DRY | 23 COOKED-FRESH-BOILED | 6F1799 | P 0.200000 | 0.006000 | 100.00 |
| 28023AB | SOYBEANS-DRY | 25 COOKED-FRESH-FRIED | 6F1799 | P 0.200000 | 0.006000 | 100.00 |
| 28023AB | SOYBEANS-DRY | 31 COOKED-FRESH OR CANNED | 6F1799 | P 0.200000 | 0.006000 | 100.00 |
| 28023AB | SOY-FL, FULL FAT | 21 COOKED-NFS | 6F1799 | P 0.200000 | 0.006000 | 100.00 |
| 28023WA | SOY-FL, FULL FAT | 22 COOKED-FRESH-BAKED | 6F1799 | P 0.200000 | 0.006000 | 100.00 |
| 28023WA | SOY-FL, FULL FAT | 31 COOKED-FRESH OR CANNED | 6F1799 | P 0.200000 | 0.006000 | 100.00 |
| 28023WB | SOY-FL, LOW FAT | 21 COOKED-NFS | 6F1799 | P 0.200000 | 0.006000 | 100.00 |
| 28023WC | SOY-FL, DEFAT | 10 RAW-FRESH OR NFS | 6F1799 | P 0.200000 | 0.006000 | 100.00 |
| 28023WC | SOY-FL, DEFAT | 21 COOKED-NFS | 6F1799 | P 0.200000 | 0.006000 | 100.00 |
| 28023WC | SOY-FL, DEFAT | 22 COOKED-FRESH-BAKED | 6F1799 | P 0.200000 | 0.006000 | 100.00 |
| 28023WC | SOY-FL, DEFAT | 51 COOKED-CANNED | 6F1799 | P 0.200000 | 0.006000 | 100.00 |
| 28023WC | SOY-FL, DEFAT | 53 COOKED-CANNED-BOILED | 1E2473 | P 2.000000 | 0.003000 | 100.00 |
| 28080AA | PEPPERMINT-OIL | 00 NOT SPECIFIED (NO CONSUMPTION) | 1E2473 | P 2.000000 | 0.003000 | 100.00 |
| 28080AA | PEPPERMINT-OIL | 00 NOT SPECIFIED (NO CONSUMPTION) | 1E2473 | P 2.000000 | 0.003000 | 100.00 |
| 28081AA | SPEARMINT-OIL | 00 NOT SPECIFIED (NO CONSUMPTION) | 1E2473 | P 2.000000 | 0.003000 | 100.00 |
| 28081OA | SPEARMINT-OIL | 00 NOT SPECIFIED (NO CONSUMPTION) | | | | |