

US EPA ARCHIVE DOCUMENT



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

FEB 26 1990
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MEMORANDUM

SUBJECT: IPRODIONE: Further Information regarding Upper Bound Carcinogenic and Acute Dietary Exposure and Risk Estimates.

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

THROUGH: Elizabeth Doyle, Section Head
Dietary Risk Evaluation Section
SAB/Health Effects Division

E.A. Doyle
W. Brown

TO: J. Housenger/V. Prunier
Special Review Branch
Special Review and Reregistration Division (7508W)

Action Requested

Conduct carcinogenic and acute dietary risk analyses for iprodione using refined anticipated residue information based on PDP data.

Discussion

CBRS previously determined anticipated residues for iprodione using monitoring data from FDA and/or the FOODCONTAM data base. SRRD has recently requested revised anticipated residue information based on new percent crop treated data from BEAD and PDP data.

Although iprodione tolerances are not established for celery, use is allowed under Section 18 registrations, and PDP does report samples with detectable residues. Thus, for the purposes of this analysis, the commodity celery was added to the commodity list.

Toxicological Endpoint:

The HED Cancer Peer Review Committee met in 1994 and determined that iprodione should be classified as a group B2 carcinogen (probable human carcinogen) (E. Rinde and L. Taylor memo, 7/27/94). Calculations of Q₁*s for both mice and rats are found in a B. Fisher memo, 7/19/94. The Q₁* from the rat study

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used in this risk analysis was based upon interstitial cell benign tumor rates and was calculated to be $0.0439 \text{ (mg/kg/day)}^{-1}$. The $3/4$ interspecies scaling factor was used to determine human equivalence of the unit risk derived from the animal study.

The Toxicity Endpoint Selection Document recommends that an acute dietary risk analysis be conducted for iprodione. A NOEL of 60 mg/kg/day from a rabbit developmental toxicity study was chosen as the endpoint for acute risk assessment. The LEL in the rabbit study was 200 mg/kg/day based on abortions and skeletal variations (See Toxicology Endpoint Selection Document, 3/29/95).

Residue Information

The raw agricultural commodities which are being considered in the carcinogenic and acute dietary analyses are the published tolerances in 40 CFR § 180.399 and 185.3750. A new tolerance on celery was included in the carcinogenic and acute analyses.

For upper bound carcinogenic risk CBRS provided specific anticipated residues for this analysis (See memo, J. Abbotts, 2/16/96). It should be noted that some anticipated residues were higher than previous estimates found in the J. Abbotts memo of 5/1/95. In a previous analysis (See memo, J. Wintersteen, 6/29/95) anticipated residues based on monitoring data were adjusted for percent crop treated data. BEAD has updated this data (Memo, 12/95, A. Halvorson) and this analysis reflects the revised values used in this analysis.

A summary of the residue information used in the carcinogenic analysis is attached as Table 1. A summary of the commodity contribution for the upper bound carcinogenic analysis is attached as Table 2. A summary of the residues used in the acute analysis is attached as Table 3.

Results

Upper Bound Carcinogenic Exposure

The upper bound carcinogenic risk from food uses of iprodione for the general U.S. population was calculated using the following equation:

$$\text{Upper Bound Cancer Risk} = \text{Dietary Exposure (ARC)} \times Q_1^*$$

Based on a Q_1^* of $0.0439 \text{ (mg/kg/day)}^{-1}$, the upper bound cancer risk was calculated to be 1.5×10^{-5} contributed through all the published and new uses for iprodione. The overall upper bound risk appears to be above the range the Agency generally considers negligible for excess life time cancer risk. A summary of the commodity contribution by raw agricultural commodity (RAC) for the overall U.S. population subgroup is attached as Table 2.

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The following table lists some of the commodities which are driving the carcinogenic risk for iprodione.

Commodity	Upper Bound Cancer Risk
Wine and Sherry	3.06×10^{-6}
Peaches	4.9×10^{-6}
Milk	3.4×10^{-6}

Acute Exposure:

The DRES detailed acute analysis estimates the distribution of single-day exposures for the overall U.S. population and certain subgroups. The analysis evaluates individual food consumption as reported by respondents in the USDA 1977-78 Nationwide Food Consumption Survey (NFCS) and accumulates exposure to the chemical for each commodity. The analysis assumes uniform distribution of iprodione in the commodity supply. Since the toxicological endpoint to which exposure is being compared in this analysis is developmental toxicity, females (13+ years), is the sub population of particular interest.

The Margin of Exposure (MOE) is a measure of how close the high end exposure comes to the NOEL (the highest dose at which no effects were observed in the laboratory test), and is calculated as the ratio of the NOEL to the exposure (NOEL/exposure = MOE). Generally, acute dietary margins of exposure greater than 100 tend to cause no dietary concern when the NOEL is taken from an animal study, as in this analysis. The high end MOE value of 100 (See Table 4) is above the acceptable level and demonstrates no acute dietary concern.

Risk Assessment

The chronic and acute risk from iprodione seem to be minimal with the most concern for the carcinogenic estimate. Using a non-threshold model of carcinogenicity, the upper bound carcinogenic risk estimate exceeds the level the Agency generally considers negligible. As such, DRES has concern over the upper bound estimate of carcinogenic risk from iprodione.

cc: DRES; CDBS (J. Abbotts), Caswell 470A, RCAB

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CHEMICAL Iprodione (Glycophene) Caswell #470A CAS No. 36734-19-7 A.I. CODE: 109801 CFR No. 180.399 185.3750	STUDY TYPE 2yr feeding- rat NOEL= 6,1000 mg/kg 150.00 ppm LEL= 12,4000 mg/kg 300.00 ppm ONCO: B2 (HCPRC)	EFFECTS Enlargement of the cells of the zona glomerulosa in M&F. Evidence of carcinogenicity in mice (liver; M&F) & rats (testicular; M).	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS WHO reviewed 12/19/86 HED reviewed 07/15/87 EPA verified 07/15/87 WHO reviewed 1992 RfD/PR reviewed 02/10/94 On IRIS.
			AD1 UF -->100 OPP RfD= 0.060000 EPA RfD= 0.040000 q*: 0.04390	No data gaps.	

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
01002AA	BLACKBERRIES	10 RAW-FRESH OR NFS	7F3542	P 25.000000	0.361000	Monitor data	100.00	0.361000
01002AA	BLACKBERRIES	21 COOKED-NFS	7F3542	P 25.000000	0.361000	Monitor data	100.00	0.361000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7F3542	P 25.000000	0.361000	Monitor data	100.00	0.361000
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	7F3542	P 25.000000	0.198000	Monitor data	100.00	0.198000
01004AA	DEWBERRIES	00 NOT SPECIFIED	7F3542	P 25.000000	0.198000	Monitor data	100.00	0.198000
01005AA	LOGANBERRIES	00 NOT SPECIFIED	7F3542	P 25.000000	0.198000	Monitor data	100.00	0.198000
01006AA	RASPBERRIES	10 RAW-FRESH OR NFS	7F3542	P 25.000000	0.198000	Monitor data	100.00	0.198000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	7F3542	P 25.000000	0.198000	Monitor data	100.00	0.198000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	7F3542	P 25.000000	0.198000	Monitor data	100.00	0.198000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	7F3542	P 25.000000	0.198000	Monitor data	100.00	0.198000
01006AA	RASPBERRIES	70 RAW-FROZEN	7F3542	P 25.000000	0.198000	Monitor data	100.00	0.198000
01007AA	YOUNGBERRIES	00 NOT SPECIFIED	7F3542	P 25.000000	0.198000	Monitor data	100.00	0.198000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	5E3214	P 15.000000	0.023000	Monitor data	100.00	0.023000
01009AA	BLUEBERRIES	21 COOKED-NFS	5E3214	P 15.000000	0.023000	Monitor data	100.00	0.023000
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	5E3214	P 15.000000	0.023000	Monitor data	100.00	0.023000
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	5E3214	P 15.000000	0.023000	Monitor data	100.00	0.023000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	5E3214	P 15.000000	0.198000	Monitor data	100.00	0.198000
01011AA	CURRENTS	21 COOKED-NFS	5E3214	P 15.000000	0.198000	Monitor data	100.00	0.198000
01011AA	CURRENTS	22 COOKED-FRESH-BAKED	5E3214	P 15.000000	0.198000	Monitor data	100.00	0.198000
01011AA	CURRENTS	10 RAW-FRESH OR NFS	3F2964	P 10.000000	0.074000	PDP	100.00	0.074000
01011AA	CURRENTS	21 COOKED-NFS	3F2964	P 10.000000	0.074000	PDP	100.00	0.074000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	3F2964	P 10.000000	0.074000	PDP	100.00	0.074000
01014AA	GRAPES-FRESH	21 COOKED-NFS	3F2964	P 10.000000	0.074000	PDP	100.00	0.074000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	3F2964	P 10.000000	0.074000	PDP	100.00	0.074000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	4H5415	P 50.000000	0.333000C	PDP+ Proc	100.00	0.333000
01014AA	GRAPES-FRESH	21 COOKED-NFS	4H5415	P 50.000000	0.333000C	PDP+ Proc	100.00	0.333000
01014AA	GRAPES-FRESH	22 COOKED-FRESH-BAKED	4H5415	P 50.000000	0.333000C	PDP+ Proc	100.00	0.333000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	3F2964	P 10.000000	0.074000C	PDP+ Proc	100.00	0.074000
01014AA	GRAPES-FRESH	15 RAW-FRESH OR CANNED	3F2964	P 10.000000	0.074000C	PDP+ Proc	100.00	0.074000
01014AA	GRAPES-FRESH	21 COOKED-NFS	3F2964	P 10.000000	0.074000C	PDP+ Proc	100.00	0.074000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	7F3510	P 15.000000	0.266000	Monitor data	100.00	0.266000
01016AA	STRAWBERRIES	21 COOKED-NFS	7F3510	P 15.000000	0.266000	Monitor data	100.00	0.266000
01016AA	STRAWBERRIES	70 RAW-FROZEN	7F3510	P 15.000000	0.266000	Monitor data	100.00	0.266000
03001AA	ALMONDS	10 RAW-FRESH OR NFS	5F3241	P 0.300000	0.100000	Field Trial	100.00	0.100000
03001AA	ALMONDS	21 COOKED-NFS	5F3241	P 0.300000	0.100000	Field Trial	100.00	0.100000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	5F3241	P 0.300000	0.100000	Field Trial	100.00	0.100000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	3F2810	P 20.000000	0.041000	Monitor data	100.00	0.041000
05001AA	APRICOTS-FRESH	21 COOKED-NFS	3F2810	P 20.000000	0.041000	Monitor data	100.00	0.041000
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	3F2810	P 20.000000	0.041000	Monitor data	100.00	0.041000
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	3F2810	P 20.000000	0.230000C	Monitor + Conc	100.00	0.230000
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	3F2810	P 20.000000	0.230000C	Monitor + Conc	100.00	0.230000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	2F2596	P 20.000000	0.340000	Monitor data	100.00	0.340000

CHEMICAL Iprodione (Glycophene) Caswell #470A CAS No. 36734-19-7 A.I. CODE: 109801 CFR No. 180.399 185.3750	STUDY TYPE 2yr feeding- rat NOEL= 6,1000 mg/kg 150.00 ppm LEL= 12.4000 mg/kg 300.00 ppm ONCO: B2 (HPRC)	EFFECTS Enlargement of the cells of the zona glomerulosa in M&F. Evidence of carcinogenicity in mice (liver; M&F) & rats (testicular; M).	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
			ADI UF -->100 OPP RfD= 0.060000 EPA RfD= 0.040000 Q*: 0.04390	No data gaps.	

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
05002AA	CHERRIES-FRESH	21 COOKED-NFS	2F2596	P 20.000000	0.340000	Monitor data	100.00	0.340000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	2F2596	P 20.000000	0.340000	Monitor data	100.00	0.340000
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	2F2596	P 20.000000	0.340000	Monitor data	100.00	0.340000
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED	2F2596	P 20.000000	2.070000C	Monitor + Conc	100.00	2.070000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	2F2596	P 20.000000	0.340000C	Monitor + Proc	100.00	0.340000
05002JA	CHERRIES-JUICE	21 COOKED-NFS	2F2596	P 20.000000	0.340000C	Monitor + Proc	100.00	0.340000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	2F2596	P 20.000000	0.220000	Monitor data	100.00	0.220000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	2F2596	P 20.000000	0.517000	PDP	100.00	0.517000
05004AA	PEACHES-FRESH	21 COOKED-NFS	2F2596	P 20.000000	0.517000	PDP	100.00	0.517000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	2F2596	P 20.000000	0.517000	PDP	100.00	0.517000
05004AA	PEACHES-FRESH	51 COOKED-CANNED	2F2596	P 20.000000	0.517000	PDP	100.00	0.517000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	2F2596	P 20.000000	3.520000C	PDP + Conc	100.00	3.520000
05004DA	PEACHES-DRIED	21 COOKED-NFS	2F2596	P 20.000000	3.520000C	PDP + Conc	100.00	3.520000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	3F2810	P 20.000000	0.069000	Monitor data	100.00	0.069000
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	3F2810	P 20.000000	0.069000	Monitor data	100.00	0.069000
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	3F2810	P 20.000000	0.276000C	Monitor + Proc	100.00	0.276000
05005DA	PLUMS-PRUNES	21 COOKED-NFS	3F2810	P 20.000000	0.276000C	Monitor + Proc	100.00	0.276000
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	3F2810	P 20.000000	0.276000C	Monitor + Proc	100.00	0.276000
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	3F2810	P 20.000000	0.138000C	Monitor + Conc	100.00	0.138000
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	3F2810	P 20.000000	0.138000C	Monitor + Conc	100.00	0.138000
06018AA	KIWI	10 RAW-FRESH OR NFS	2F2596	P 10.000000	0.180000	Monitor data	100.00	0.180000
13002AA	CELERY	10 RAW-FRESH OR NFS	SPC.RV	N 0.005000	0.005000	PDP	100.00	0.005000
13002AA	CELERY	21 COOKED-NFS	SPC.RV	N 0.005000	0.005000	PDP	100.00	0.005000
13005AA	BROCCOLI	21 COOKED-NFS	6F3305	P 25.000000	0.001600	Monitor data	100.00	0.001600
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	6F3305	P 25.000000	0.001600	Monitor data	100.00	0.001600
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	6F3305	P 25.000000	0.001600	Monitor data	100.00	0.001600
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	9E3790	P 15.000000	0.003400	Regional Tol-FL	100.00	0.003400
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	9E3790	P 15.000000	0.003400	Regional Tol-FL	100.00	0.003400
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR NFS	7F3481	P 25.000000	0.040000	Monitor data	100.00	0.040000
13020AA	LETTUCE-UNSPEC	10 RAW-FRESH OR NFS	7F3554	P 25.000000	0.040000	Monitor data	100.00	0.040000
13045AA	LETTUCE-HEAD	10 RAW-FRESH OR NFS	3F2840	P 25.000000	0.004800	Monitor data	100.00	0.004800
13045AA	LETTUCE-HEAD	21 COOKED-NFS	3F2840	P 25.000000	0.004800	Monitor data	100.00	0.004800
14003AA	CARROTS	10 RAW-FRESH OR NFS	7E3474	P 5.000000	0.021000	Monitor +PDP	100.00	0.021000
14003AA	CARROTS	10 RAW-FRESH OR NFS	7E3474	P 5.000000	0.021000	Monitor +PDP	100.00	0.021000
14003AA	CARROTS	23 COOKED-FRESH-BOILED	7E3474	P 5.000000	0.021000	Monitor +PDP	100.00	0.021000
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	7E3474	P 5.000000	0.021000	Monitor +PDP	100.00	0.021000
14003AA	CARROTS	51 COOKED-CANNED	7E3474	P 5.000000	0.021000	Monitor +PDP	100.00	0.021000
14007AA	GARLIC	10 RAW-FRESH OR NFS	3F2841	P 0.100000	0.008800	Monitor data	100.00	0.008800
14007AA	GARLIC	21 COOKED-NFS	3F2841	P 0.100000	0.008800	Monitor data	100.00	0.008800
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	3F2841	P 0.100000	0.008800	Monitor data	100.00	0.008800

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Iprodione (glycophene) Caswell #470A CAS No. 36734-19-7 A.I. CODE: 109801 CFR No. 180.399 185.3750	2yr feeding- rat NOEL= 6.1000 mg/kg 150.00 ppm LEL= 12.4000 mg/kg 300.00 ppm ONCO: B2 (HCPRC)	Enlargement of the cells of the zona glomerulosa in M&F. Evidence of carcinogenicity in mice (liver; M&F) & rats (testicular; M).	ADI UF -->100 OPP RfD= 0.060000 EPA RfD= 0.040000 Q*: 0.04390	No data gaps.	WHO reviewed 1977 HED reviewed 12/19/86 EPA verified 07/15/87 WHO reviewed 1992 RfD/PR reviewed 02/10/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	4F3111	P 0.500000	0.008800	Monitor data	100.00	0.008800
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	4F3111	P 0.500000	0.008800	Monitor data	100.00	0.008800
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	4F3111	P 0.500000	0.008800	Monitor data	100.00	0.008800
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	4F3111	P 0.500000	0.008800	Monitor data	100.00	0.008800
14011DA	ONIONS-DRY	12 RAW-FRESH-BAKED	4F3111	P 0.500000	0.008800	Monitor data	100.00	0.008800
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	6F3366	P 0.500000	0.001400C PDP		100.00	0.001400
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	6F3366	P 0.500000	0.001400C PDP		100.00	0.001400
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	6F3366	P 0.500000	0.001400C PDP		100.00	0.001400
14013AA	POTATO(WH)-WHOLE	23 COOKED-FRESH-BAKED	6F3366	P 0.500000	0.001400C PDP		100.00	0.001400
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	6F3366	P 0.500000	0.001400C PDP + Proc		100.00	0.001400
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	6F3366	P 0.500000	0.001400C PDP + Proc		100.00	0.001400
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	6F3366	P 0.500000	0.001400C PDP + Proc		100.00	0.001400
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	6F3366	P 0.500000	0.001400C PDP + Proc		100.00	0.001400
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	6F3366	P 0.500000	0.001400C PDP data		100.00	0.001400
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	6F3366	P 0.500000	0.001400C PDP + Proc		100.00	0.001400
14013DA	POTATO(WH)-DRY	22 COOKED-FRESH-BAKED	6F3366	P 0.500000	0.008800	Monitor data	100.00	0.008800
14017AA	SHALLOTS	00 NOT SPECIFIED	4F3111	P 2.000000	0.000050	Monitor data	100.00	0.000050
15001AA	BEANS-DRY-GRN	00 NOT SPECIFIED	4F3150	P 2.000000	0.000050	Monitor data	100.00	0.000050
15001AB	BEANS-DRY-KIDNEY	21 COOKED-NFS	4F3150	P 2.000000	0.000050	Monitor data	100.00	0.000050
15001AB	BEANS-DRY-KIDNEY	31 COOKED-FRESH OR CANNED	4F3150	P 2.000000	0.000050	Monitor data	100.00	0.000050
15001AC	BEANS-DRY-LIMA	21 COOKED-NFS	4F3150	P 2.000000	0.000050	Monitor data	100.00	0.000050
15001AD	BEANS-DRY-NAVY	21 COOKED-NFS	4F3150	P 2.000000	0.000050	Monitor data	100.00	0.000050
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	4F3150	P 2.000000	0.000050	Monitor data	100.00	0.000050
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS	4F3150	P 2.000000	0.000050	Monitor data	100.00	0.000050
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED	4F3150	P 2.000000	0.000050	Monitor data	100.00	0.000050
15001AE	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	4F3150	P 2.000000	0.000050	Monitor data	100.00	0.000050
15001AF	BEANS-DRY-PINTO	21 COOKED-NFS	4F3150	P 2.000000	0.000050	Monitor data	100.00	0.000050
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR NFS	4F3150	P 2.000000	0.001600	Monitor data	100.00	0.001600
15002AA	BEANS-SUCC-LIMA	21 COOKED-NFS	4F3150	P 2.000000	0.001600	Monitor data	100.00	0.001600
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	4F3150	P 2.000000	0.001600	Monitor data	100.00	0.001600
15003AB	BEANS-SUCC-OTH	10 RAW-FRESH OR NFS	4F3150	P 2.000000	0.001600	Monitor data	100.00	0.001600
15003AB	BEANS-SUCC-OTH	21 COOKED-NFS	4F3150	P 2.000000	0.001600	Monitor data	100.00	0.001600
15003AC	BEANS-SUCC-WAX	21 COOKED-NFS	4F3150	P 2.000000	0.001600	Monitor data	100.00	0.001600
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	4F3129	P 0.500000	0.075000	Field Trial	100.00	0.075000
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	4F3129	P 0.500000	0.075000	Field Trial	100.00	0.075000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	4F3150	P 2.000000	0.001600	Monitor data	100.00	0.001600
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	4F3150	P 2.000000	0.000050	Monitor data	100.00	0.000050
15013AA	MUNG BEANS	21 COOKED-NFS	4F3150	P 2.000000	0.000050	Monitor data	100.00	0.000050
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED	4F3150	P 2.000000	0.001600	Monitor data	100.00	0.001600
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED	4F3150	P 2.000000	0.001600	Monitor data	100.00	0.001600

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Iprodione (Glycophene) Caswell #470A CAS No. 36734-19-7 A.I. CODE: 109801 CFR No. 180.399 185.3750	2yr feeding- rat NOEL= 6,1000 mg/kg 150.00 ppm LEL= 12,4000 mg/kg 300.00 ppm ONCO: B2 (HCPRC)	Enlargement of the cells of the zona glomerulosa in M&F. Evidence of carcinogenic- ity in mice (liver; M&F) & rats (testicular; M).	ADI UF -->100 OPP RfD= 0.060000 EPA RfD= 0.040000 Q*: 0.04390	No data gaps.	WHO reviewed 1977 HED reviewed 12/19/86 EPA verified 07/15/87 WHO reviewed 1992 RfD/PR reviewed 02/10/94 OJ IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)			
15023AA	BEANS-DRY-PIGEON	21	COOKED-NFS	4F3150	P	2.000000	0.000050	Monitor data	100.00	0.000050
15027AA	BEANS-UNSPEC	21	COOKED-NFS	4F3150	P	2.000000	0.001600	Monitor data	100.00	0.001600
15030AA	BEANS-DRY-HYAC	00	NOT SPECIFIED	4F3150	P	2.000000	0.000050	Monitor data	100.00	0.000050
15030AB	BEANS-SUCC-HYAC	00	NOT SPECIFIED	4F3150	P	2.000000	0.001600	Monitor data	100.00	0.001600
15031AA	BLKEYE PEAS-DRY	21	COOKED-NFS	4F3150	P	2.000000	0.000050	Monitor data	100.00	0.000050
15032AA	BEANS-DRY	21	COOKED-NFS	4F3150	P	2.000000	0.000050	Monitor data	100.00	0.000050
15032AA	BEANS-DRY	31	COOKED-FRESH OR CANNED	4F3150	P	2.000000	0.000050	Monitor data	100.00	0.000050
24004AA	RICE-ROUGH	21	COOKED-NFS	6F3443	P	10.000000	0.570000	Field Trial	100.00	0.570000
24004AA	RICE-ROUGH	23	COOKED-FRESH-BOILED	6F3443	P	10.000000	0.570000	Field Trial	100.00	0.570000
24004AA	RICE-ROUGH	23	COOKED-FRESH-BOILED	6F3443	P	10.000000	0.570000	Field Trial	100.00	0.570000
24004AB	RICE-MILLED	21	COOKED-NFS	6F3443	P	10.000000	0.063000	Field + Proc	100.00	0.063000
24004AB	RICE-MILLED	22	COOKED-FRESH-BAKED	6F3443	P	10.000000	0.063000	Field + Proc	100.00	0.063000
24004AB	RICE-MILLED	23	COOKED-FRESH-BOILED	6F3443	P	10.000000	0.063000	Field + Proc	100.00	0.063000
24004AB	RICE-MILLED	31	COOKED-FRESH OR CANNED	6F3443	P	10.000000	0.063000	Field + Proc	100.00	0.063000
270070A	PEANUTS-OIL	18	PROCESSED OIL	4F3129	P	0.050000	0.012000	Field + Proc	100.00	0.012000
43058AA	WINE AND SHERRY	10	RAW-FRESH OR NFS	3F2964	P	10.000000	0.830000	Monitor data	100.00	0.830000
43058AA	WINE AND SHERRY	21	COOKED-NFS	3F2964	P	10.000000	0.830000	Monitor data	100.00	0.830000
500000B	MILK-NON-FAT SOL	10	RAW-FRESH OR NFS	4F3129	P	0.500000	0.007300	Feeding study	100.00	0.007300
500000B	MILK-NON-FAT SOL	21	COOKED-NFS	4F3129	P	0.500000	0.007300	Feeding study	100.00	0.007300
500000B	MILK-NON-FAT SOL	51	COOKED-CANNED	4F3129	P	0.500000	0.007300	Feeding study	100.00	0.007300
50000FA	MILK-FAT SOLIDS	10	RAW-FRESH OR NFS	4F3129	P	0.500000	0.007300	Feeding study	100.00	0.007300
50000FA	MILK-FAT SOLIDS	21	COOKED-NFS	4F3129	P	0.500000	0.007300	Feeding study	100.00	0.007300
50000FA	MILK-FAT SOLIDS	51	COOKED-CANNED	4F3129	P	0.500000	0.007300	Feeding study	100.00	0.007300
50000SA	MILK SUG (LACT)	21	COOKED-NFS	4F3129	P	0.500000	0.007300	Feeding study	100.00	0.007300
50000SA	MILK SUG (LACT)	51	COOKED-CANNED	4F3129	P	0.500000	0.007300	Feeding study	100.00	0.007300
530018A	BEEF-HEAT BYP	26	COOKED-FRESH-PICKLED, CORNED, OR CURED	4F3129	P	0.500000	0.000870	Feeding study	100.00	0.000870
530018A	BEEF-HEAT BYP	26	COOKED-FRESH-PICKLED, CORNED, OR CURED	4F3129	P	0.500000	0.000870	Feeding study	100.00	0.000870
530018B	BEEF-OTH ORGAN	21	COOKED-NFS	4F3129	P	0.500000	0.009900	Feeding study	100.00	0.009900
530018B	BEEF-OTH ORGAN	51	COOKED-CANNED	4F3129	P	0.500000	0.009900	Feeding study	100.00	0.009900
53001FA	BEEF-FAT	10	RAW-FRESH OR NFS	4F3129	P	0.500000	0.000870	Feeding study	100.00	0.000870
53001FA	BEEF-FAT	21	COOKED-NFS	4F3129	P	0.500000	0.009900	Feeding study	100.00	0.009900
53001FA	BEEF-FAT	21	COOKED-NFS	4F3129	P	0.500000	0.009900	Feeding study	100.00	0.009900
53001FA	BEEF-FAT	22	COOKED-FRESH-BAKED	4F3129	P	0.500000	0.002600	Feeding study	100.00	0.002600
53001FA	BEEF-FAT	23	COOKED-FRESH-BOILED	4F3129	P	0.500000	0.002600	Feeding study	100.00	0.002600
53001FA	BEEF-FAT	24	COOKED-FRESH-BOILED	4F3129	P	0.500000	0.002600	Feeding study	100.00	0.002600
53001FA	BEEF-FAT	25	COOKED-FRESH-FRIED	4F3129	P	0.500000	0.002600	Feeding study	100.00	0.002600
53001KA	BEEF-KIDNEY	21	COOKED-NFS	3F2964	P	3.000000	0.009900	Feeding study	100.00	0.009900
53001LA	BEEF-LIVER	25	COOKED-FRESH-FRIED	3F2964	P	3.000000	0.008200	Feeding study	100.00	0.008200
53001LA	BEEF-LIVER	31	COOKED-FRESH-FRIED	3F2964	P	3.000000	0.008200	Feeding study	100.00	0.008200
53001NA	BEEF-LEAN	10	RAW-FRESH OR NFS	4F3129	P	0.500000	0.000870	Feeding study	100.00	0.000870

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Iprodione (Glycophene) Caswell #470A CAS No. 36734-19-7 A.I. CODE: 109801 CFR No. 180.399 185.3750	2yr feeding- rat NOEL= 6.1000 mg/kg 150.00 ppm LEL= 12.4000 mg/kg 300.00 ppm ONCO: B2 (HCPRC)	Enlargement of the cells of the zona glomerulosa in M&F. Evidence of carcinogenicity in mice (Liver; M&F) & rats (testicular; M).	ADI UF -->100 OPP Rfd= 0.060000 EPA Rfd= 0.040000 q*: 0.04390	No data gaps.	WHO reviewed 12/19/86 EPA verified 07/15/87 WHO reviewed 1992 RfD/PR reviewed 02/10/94 ON IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53001MA	BEEF-LEAN	21 COOKED-NFS	4F3129	0.500000	0.000870	Feeding study	100.00	0.000870
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	4F3129	0.500000	0.000870	Feeding study	100.00	0.000870
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	4F3129	0.500000	0.000870	Feeding study	100.00	0.000870
53001MA	BEEF-LEAN	24 COOKED-FRESH-BOILED	4F3129	0.500000	0.000870	Feeding study	100.00	0.000870
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED	4F3129	0.500000	0.009900	Feeding study	100.00	0.009900
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED	4F3129	0.500000	0.002600	Feeding study	100.00	0.002600
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	4F3129	0.500000	0.002600	Feeding study	100.00	0.002600
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	4F3129	0.500000	0.009900	Feeding study	100.00	0.009900
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED	3F2964	3.000000	0.009900	Feeding study	100.00	0.009900
53002LA	GOAT-LIVER	00 NOT SPECIFIED	3F2964	3.000000	0.008200	Feeding study	100.00	0.008200
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	4F3129	0.500000	0.000870	Feeding study	100.00	0.000870
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	4F3129	0.500000	0.000870	Feeding study	100.00	0.000870
53003AA	HORSE	00 NOT SPECIFIED	4F3129	3.000000	3.000000	Tolerance	100.00	3.000000
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	4F3129	0.500000	0.000870	Feeding study	100.00	0.000870
53005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	4F3129	0.500000	0.009900	Feeding study	100.00	0.009900
53005FA	SHEEP-FAT	21 COOKED-NFS	4F3129	0.500000	0.002600	Feeding study	100.00	0.002600
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	3F2964	3.000000	0.009900	Feeding study	100.00	0.009900
53005LA	SHEEP-LIVER	00 NOT SPECIFIED	3F2964	3.000000	0.008200	Feeding study	100.00	0.008200
53005MA	SHEEP-LEAN	21 COOKED-NFS	4F3129	0.500000	0.000870	Feeding study	100.00	0.000870
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	4F3129	0.500000	0.000370	Feeding study	100.00	0.000370
530068A	PORK-MEAT BYP	21 COOKED-NFS	4F3129	0.500000	0.004300	Feeding study	100.00	0.004300
530068B	PORK-OTH ORGAN	21 COOKED-NFS	4F3129	0.500000	0.001100	Feeding study	100.00	0.001100
530068B	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	4F3129	0.500000	0.001100	Feeding study	100.00	0.001100
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	4F3129	0.500000	0.001100	Feeding study	100.00	0.001100
53006FA	PORK-FAT	21 COOKED-NFS	4F3129	0.500000	0.001100	Feeding study	100.00	0.001100
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	4F3129	0.500000	0.001100	Feeding study	100.00	0.001100
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	4F3129	0.500000	0.001100	Feeding study	100.00	0.001100
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	4F3129	0.500000	0.001100	Feeding study	100.00	0.001100
53006KA	PORK-KIDNEY	21 COOKED-NFS	3F2964	3.000000	0.004300	Feeding study	100.00	0.004300
53006LA	PORK-LIVER	21 COOKED-NFS	3F2964	3.000000	0.003500	Feeding study	100.00	0.003500
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	3F2964	3.000000	0.003500	Feeding study	100.00	0.003500
53006MA	PORK-LEAN	21 COOKED-NFS	4F3129	0.500000	0.000370	Feeding study	100.00	0.000370
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	4F3129	0.500000	0.000370	Feeding study	100.00	0.000370
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	4F3129	0.500000	0.000370	Feeding study	100.00	0.000370
550088A	TURKEY-BYP	21 COOKED-NFS	6F3443	1.000000	0.000570	Feeding study	100.00	0.000570
550088A	TURKEY-BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F3443	1.000000	0.000570	Feeding study	100.00	0.000570
55008LA	TURKEY ORGAN	21 COOKED-NFS	6F3443	5.000000	0.010400	Feeding study	100.00	0.010400
55008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	6F3443	5.000000	0.010400	Feeding study	100.00	0.010400
55008MA	TURKEY W/O SKIN	21 COOKED-NFS	6F3443	1.000000	0.000570	Feeding study	100.00	0.000570
55008MA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	6F3443	1.000000	0.000570	Feeding study	100.00	0.000570

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Iprodione (Glycophene) Caswell #470A CAS No. 36734-19-7 A.I. CODE: 109801 CFR No. 180.399 185.3750	2yr feeding- rat NOEL= 6.1000 mg/kg 150.00 ppm LEL= 12.4000 mg/kg 300.00 ppm ONCO: B2 (HCPRC)	Enlargement of the cells of the zona glomerulosa in M&F. Evidence of carcinogenic- ity in mice (liver; M&F) & rats (testicular; M).	ADI UF -->100 OPP RfD= 0.06/0000 EPA RfD= 0.04/0000 Q*: 0.04390	No data gaps.	WHO reviewed 12/19/86 HED reviewed 07/15/87 EPA verified 07/15/87 WHO reviewed 1992 RfD/PR reviewed 02/10/94 On IRIS.

FOOD CODE	FOOD	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
55008NA	TURKEY W/O SKIN	62	1.000000	0.000570	Feeding study	100.00	0.000570
55008NB	TURKEY-SKIN	21	3.500000	0.004400	Feeding study	100.00	0.004400
55008MB	TURKEY-SKIN	25	3.500000	0.004400	Feeding study	100.00	0.004400
55008MC	TURKEY-UNSPEC	21	1.000000	0.000570	Feeding study	100.00	0.000570
55013BA	POULTRY, OTH-BYP	00	1.000000	0.010400	Feeding study	100.00	0.010400
55013LA	POULTRY, ORGAN	25	3.500000	0.004400	Feeding study	100.00	0.004400
55013MA	POULTRY, OTHER	21	1.500000	0.002400	Feeding study	100.00	0.002400
55014AA	EGGS-WHOLE	10	1.500000	0.002400	Feeding study	100.00	0.002400
55014AA	EGGS-WHOLE	21	1.500000	0.002400	Feeding study	100.00	0.002400
55014AA	EGGS-WHOLE	22	1.500000	0.002400	Feeding study	100.00	0.002400
55014AA	EGGS-WHOLE	23	1.500000	0.002400	Feeding study	100.00	0.002400
55014AA	EGGS-WHOLE	25	1.500000	0.002400	Feeding study	100.00	0.002400
55014AB	EGGS-WHITE ONLY	10	1.500000	0.002400	Feeding study	100.00	0.002400
55014AB	EGGS-WHITE ONLY	21	1.500000	0.002400	Feeding study	100.00	0.002400
55014AB	EGGS-WHITE ONLY	22	1.500000	0.002400	Feeding study	100.00	0.002400
55014AB	EGGS-WHITE ONLY	81	1.500000	0.002400	Feeding study	100.00	0.002400
55014AC	EGGS-YOLK ONLY	10	1.500000	0.002400	Feeding study	100.00	0.002400
55014AC	EGGS-YOLK ONLY	21	1.500000	0.002400	Feeding study	100.00	0.002400
55014AC	EGGS-YOLK ONLY	25	1.500000	0.002400	Feeding study	100.00	0.002400
55014AC	EGGS-YOLK ONLY	31	1.500000	0.002400	Feeding study	100.00	0.002400
55015BA	CHICKEN-BYP	00	1.000000	0.000570	Feeding study	100.00	0.000570
55015LA	CHICKEN-ORGAN	21	5.000000	0.010400	Feeding study	100.00	0.010400
55015LA	CHICKEN-ORGAN	25	5.000000	0.010400	Feeding study	100.00	0.010400
55015LA	CHICKEN-ORGAN	26	5.000000	0.010400	Feeding study	100.00	0.010400
55015MA	CHICKEN-W/O SKIN	21	1.000000	0.000570	Feeding study	100.00	0.000570
55015MA	CHICKEN-W/O SKIN	22	1.000000	0.000570	Feeding study	100.00	0.000570
55015MA	CHICKEN-W/O SKIN	25	1.000000	0.000570	Feeding study	100.00	0.000570
55015MA	CHICKEN-W/O SKIN	31	1.000000	0.000570	Feeding study	100.00	0.000570
55015MB	CHICKEN-W/O SKIN	53	1.000000	0.000570	Feeding study	100.00	0.000570
55015MB	CHICKEN+SKIN	21	3.500000	0.004400	Feeding study	100.00	0.004400
55015NB	CHICKEN+SKIN	25	3.500000	0.004400	Feeding study	100.00	0.004400

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TABLE 2

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 02/23/96

PAGE: 1

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS		
Iprodione (Glycophene) Caswell #470A CAS No. 36734-19-7 A.I. CODE: 109801 CFR No. 180.399 185.3750		2yr feeding- rat NOEL= 6.1000 mg/kg 150.00 ppm LEL= 12.4000 mg/kg 300.00 ppm ONCO: B2 (HCPRC)	Enlargement of the cells of the zona glomerulosa in M&F. Evidence of carcinogenicity in mice (liver; M&F) & rats (testicular; M).	ADI UF -->100 OPP Rfd= 0.060000 EPA Rfd= 0.040000	No data gaps.		WHO reviewed 1977 HEB reviewed 12/19/86 EPA verified 07/15/87 WHO reviewed 1992 Rfd/PR reviewed 02/10/94 ON, IRIS.			
FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	THRC TYPE (UG/KG/DAY)	%RFD	THRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK	
COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES										
06018AA	KIWI	10.000	P	0.000191	0.000	0.00000000838	0.18000	0.000003	0.000	0.00000000013
43058AA	WINE AND SHERRY	10.000	P	0.841956	1.403	0.00003696187	0.83000	0.069054	0.115	0.00000303147
	21 COOKED-FRESH OR NFS						0.83000	0.000828	0.001	0.000000003635
CROP GROUP TOTALS FOR UNSPECIFIED:										
				0.842147	1.404	0.00003697025		0.069885	0.116	0.00000306795
14003AA	CARROTS	5.000	P	0.867397	1.446	0.00003807873	0.02100	0.000843	0.001	0.000000003701
	10 RAW-FRESH OR NFS						0.02100	0.001067	0.002	0.00000004684
	21 COOKED-NFS						0.02100	0.000191	0.000	0.00000000838
	31 COOKED-FRESH-BOILED						0.02100	0.000697	0.001	0.000000003060
	51 COOKED-FRESH OR CANNED						0.02100	0.000846	0.001	0.000000003714
14013AA	POTATOES(WHITE)-WHOLE	0.500	P	0.170029	0.283	0.00000746427	0.00140	0.000064	0.000	0.000000000281
	10 RAW-FRESH OR NFS						0.00140	0.000210	0.000	0.00000000922
	21 COOKED-NFS						0.00140	0.000202	0.000	0.00000000887
	22 COOKED-FRESH-BAKED						0.00140	0.000000	0.000	0.000000000000
14013AB	POTATOES(WHITE)-UNSPECIFIED	0.500	P	0.000041	0.000	0.00000000180	0.00140	0.000101	0.000	0.00000000443
	22 COOKED-FRESH-BAKED						0.00140	0.000060	0.000	0.00000000263
14013AC	POTATOES(WHITE)-PEELED	0.500	P	0.392129	0.654	0.00001721446	0.00140	0.000607	0.001	0.00000002665
	21 COOKED-NFS						0.00140	0.000330	0.001	0.00000001449
14013DA	POTATOES(WHITE)-DRY	0.500	P	0.004223	0.007	0.00000018539	0.00140	0.000001	0.000	0.000000000004
	10 RAW-FRESH OR NFS						0.00140	0.000001	0.000	0.000000000004
14013HA	POTATOES(WHITE)-PEEL ONLY	0.500	P	0.000011	0.000	0.00000000048	0.00140	0.000000	0.000	0.000000000000
	22 COOKED-FRESH-BAKED						0.00140	0.000000	0.000	0.000000000000
CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:										
				1.433830	2.390	0.00006294514		0.005220	0.009	0.00000022916
14007AA	GARLIC	0.100	P	0.000076	0.000	0.000000000334	0.00880	0.000000	0.000	0.000000000000
	10 RAW-FRESH OR NFS						0.00880	0.000004	0.000	0.00000000018
	21 COOKED-NFS						0.00880	0.000002	0.000	0.000000000009
14011AA	ONIONS-DRY-BULB (CIPOLLINI)	0.500	P	0.053031	0.088	0.00000232806	0.00880	0.000163	0.000	0.000000000716
	10 RAW-FRESH OR NFS						0.00880	0.000623	0.001	0.00000002735
	21 COOKED-NFS						0.00880	0.000091	0.000	0.000000000399
	22 COOKED-FRESH-BAKED									

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Iprodione (Glycophene) Caswell #470A CAS No. 36734-19-7 A.I. CODE: 109801 CFR No. 180.399 185.3750	2yr feeding- rat NOEL= 6,1000 mg/kg 150.00 ppm LEL= 12,4000 mg/kg 300.00 ppm ONCO: B2 (HCPRC)	Enlargement of the cells of the zona glomerulosa in M&F. Evidence of carcinogenic- ity in mice (liver; M&F) & rats (testicular; M).	ADI UF -->100 OPP Rfd= 0.060000 EPA Rfd= 0.040000 Q*: 0.04390	No data gaps.	WHO reviewed 1977 HEB reviewed 12/19/86 EPA verified 07/15/87 WHO reviewed 1992 Rfd/PR reviewed 02/10/94 On IRIS.

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	ARC ONCO RISK
CROP GROUP TOTALS FOR BULB VEGETABLES:										
14011DA	31 COOKED-FRESH OR CANNED ONIONS-DEHYDRATED OR DRIED	0.500	P	0.000536	0.001	0.00000002353	0.00880	0.000056	0.000	0.00000000246
14017AA	12 RAW-FRESH-DRIED SHALLOTS	0.500	P	0.000153	0.000	0.00000000672	0.00880	0.000009	0.000	0.00000000040
	00 NOT SPECIFIED						0.00880	0.000003	0.000	0.00000000013
CROP GROUP TOTALS FOR BULB VEGETABLES:										
		0.053796		0.053796	0.090	0.0000236164	0.00951	0.0000951	0.002	0.00000004175
CROP GROUP TOTALS FOR LEAFY VEGETABLES (EXCL. BRASSICAE):										
13002AA	CELERY	0.005	N	1.524027	2.540	0.00006690479	0.00500	0.000239	0.000	0.00000001049
	10 RAW-FRESH OR NFS						0.00500	0.000066	0.000	0.00000000290
	21 COOKED-NFS						0.00500	0.000066	0.000	0.00000000290
13013AA	LETTUCE-LEAFY VARIETIES	25.000	P	0.110820	0.185	0.00000486500	0.04000	0.000177	0.000	0.00000000777
	10 RAW-FRESH OR NFS						0.04000	0.000177	0.000	0.00000000777
13020AA	LETTUCE-UNSPECIFIED	25.000	P	0.230020	0.383	0.00001009788	0.04000	0.000368	0.001	0.00000001616
	10 RAW-FRESH OR NFS						0.04000	0.000368	0.001	0.00000001616
13045AA	LETTUCE-HEAD VARIETIES	25.000	P	5.307008	8.845	0.00023297765	0.00480	0.001000	0.002	0.00000004390
	10 RAW-FRESH OR NFS						0.00480	0.001000	0.002	0.00000004390
	21 COOKED-NFS						0.00480	0.000019	0.000	0.00000000083
CROP GROUP TOTALS FOR LEAFY VEGETABLES (EXCL. BRASSICAE):										
		7.171875		7.171875	11.953	0.00031484531	0.001869	0.001869	0.003	0.00000008205
13005AA	BROCCOLI	25.000	P	1.228238	2.047	0.00005391965	0.00160	0.000005	0.000	0.00000000022
	21 COOKED-NFS						0.00160	0.000005	0.000	0.00000000022
	31 COOKED-FRESH OR CANNED						0.00160	0.000005	0.000	0.00000000022
	63 COOKED-FRESH OR FROZEN-BOILED						0.00160	0.000008	0.000	0.00000000035
13010AA	CABBAGE-CHINESE/CELERY, INC. BOK CHOY	15.000	P	0.068448	0.114	0.00000300487	0.00340	0.000001	0.000	0.00000000004
	10 RAW-FRESH OR NFS						0.00340	0.000001	0.000	0.00000000004
	21 COOKED-NFS						0.00340	0.000015	0.000	0.00000000066
CROP GROUP TOTALS FOR BRASSICA (COLE) LEAFY VEGETABLES:										
		1.296686		1.296686	2.161	0.00005692452	0.00094	0.000094	0.000	0.00000000413
15001AA	BEANS-DRY-GREAT NORTHERN	2.000	P	0.000002	0.000	0.00000000009	0.00005	0.000000	0.000	0.00000000000
	00 NOT SPECIFIED						0.00005	0.000000	0.000	0.00000000000
15001AB	BEANS-DRY-KIDNEY	2.000	P	0.027263	0.045	0.00000119685	0.00005	0.000001	0.000	0.00000000004
	21 COOKED-NFS						0.00005	0.000000	0.000	0.00000000000
	31 COOKED-FRESH OR CANNED						0.00005	0.000000	0.000	0.00000000000
15001AC	BEANS-DRY-LIMA	2.000	P	0.015978	0.027	0.00000070143	0.00005	0.000000	0.000	0.00000000000
	21 COOKED-NFS						0.00005	0.000000	0.000	0.00000000000
15001AD	BEANS-DRY-NAVY (PEA)	2.000	P	0.074815	0.125	0.00000328438	0.00005	0.000000	0.000	0.00000000000
	21 COOKED-NFS						0.00005	0.000000	0.000	0.00000000000
	31 COOKED-FRESH OR CANNED						0.00005	0.000001	0.000	0.00000000004

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Iprodione (Glycophene) Caswell #470A CAS No. 36734-19-7 A.I. CODE: 109801 CFR No. 180.399 185.3750	2yr feeding- rat NOEL= 6.1000 mg/kg 150.00 ppm LEL= 12.4000 mg/kg 300.00 ppm ONCO: B2 (HCPRC)	Enlargement of the cells of the zona glomerulosa in M&F. Evidence of carcinogenicity in mice (liver; M&F) & rats (testicular; M).	ADI UF -->100 OPP RfD= 0.060000 EPA RfD= 0.040000 Q*: 0.04390	No data gaps.	WHO reviewed 1977 HEJ reviewed 12/19/86 EPA verified 07/15/87 WHO reviewed 1992 RfD/PR reviewed 02/10/94 On IRIS.

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS TYPE	TMRC (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED			
							RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
15001AE	BEANS-DRY-OTHER 21 COOKED-NFS	2.000	P	0.079650	0.133	0.00000349664	0.00005	0.000001	0.000	0.00000000004
	25 COOKED-FRESH-FRIED						0.00005	0.000000	0.000	0.00000000000
	31 COOKED-FRESH OR CANNED						0.00005	0.000001	0.000	0.00000000004
15001AF	BEANS-DRY-PINTO 21 COOKED-NFS	2.000	P	0.072700	0.121	0.00000319153	0.00005	0.000002	0.000	0.00000000009
15002AA	BEANS-SUCCULENT-LIMA 10 RAW-FRESH OR NFS	2.000	P	0.051330	0.086	0.00000225339	0.00160	0.000000	0.000	0.00000000000
	21 COOKED-NFS						0.00160	0.000041	0.000	0.00000000180
15003AA	BEANS-SUCCULENT-GREEN 21 COOKED-NFS	2.000	P	0.400100	0.667	0.00001756439	0.00160	0.000320	0.001	0.00000001405
15003AB	BEANS-SUCCULENT-OTHER 10 RAW-FRESH OR NFS	2.000	P	0.052768	0.088	0.00000231652	0.00160	0.000000	0.000	0.00000000000
	21 COOKED-NFS						0.00160	0.000042	0.000	0.00000000184
15003AC	BEANS-SUCCULENT-YELLOW,WAX 21 COOKED-NFS	2.000	P	0.010927	0.018	0.00000047970	0.00160	0.000009	0.000	0.00000000040
15006AA	PEANUTS-WHOLE 10 RAW-FRESH OR NFS	0.500	P	0.034789	0.058	0.00000152724	0.07500	0.000079	0.000	0.00000000347
	21 COOKED-NFS						0.07500	0.004824	0.008	0.00000021177
	22 COOKED-FRESH-BAKED						0.07500	0.000316	0.001	0.00000001387
15013AA	MUNG BEANS (SPROUTS) 10 RAW-FRESH OR NFS	2.000	P	0.013304	0.022	0.00000058405	0.00160	0.000001	0.000	0.00000000004
	21 COOKED-NFS						0.00160	0.000009	0.000	0.00000000040
15022AA	BEANS-DRY-BROADBEANS(MATURE SEED) 00 NOT SPECIFIED	2.000	P	0.000002	0.000	0.00000000009	0.00005	0.000000	0.000	0.00000000000
15022AB	BEANS-SUCCULENT-BROADBEANS(IMMAT. SEED) 00 NOT SPECIFIED	2.000	P	0.000002	0.000	0.00000000009	0.00160	0.000000	0.000	0.00000000000
15023AA	BEANS-DRY-PIGEON BEANS 21 COOKED-NFS	2.000	P	0.000071	0.000	0.00000000312	0.00005	0.000000	0.000	0.00000000000
15027AA	BEANS-UNSPECIFIED 21 COOKED-NFS	2.000	P	0.010469	0.017	0.00000045959	0.00160	0.000008	0.000	0.00000000035
15030AA	BEANS-DRY-HYACINTH(MATURE SEEDS) 00 NOT SPECIFIED	2.000	P	0.000002	0.000	0.00000000009	0.00005	0.000000	0.000	0.00000000000
15030AB	BEANS-SUCCULENT-HYACINTH(YOUNG PODS) 00 NOT SPECIFIED	2.000	P	0.000002	0.000	0.00000000009	0.00160	0.000000	0.000	0.00000000000
15031AA	BEANS-DRY-BLACKEYE PEAS(COMPEAS) 21 COOKED-NFS	2.000	P	0.004947	0.008	0.0000021717	0.00005	0.000000	0.000	0.00000000000
15032AA	BEANS-DRY-GARBANZO(CHICK PEA) 21 COOKED-NFS	2.000	P	0.001052	0.002	0.00000004618	0.00005	0.000000	0.000	0.00000000000
	31 COOKED-FRESH OR CANNED						0.00005	0.000000	0.000	0.00000000000
270070A	PEANUTS-OIL 18 PROCESSED OIL	0.050	P	0.002613	0.004	0.00000011471	0.01200	0.000063	0.000	0.00000000277

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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
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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
CROP GROUP TOTALS FOR LEGUME VEGETABLES:									
			0.852786	1.421	0.00003743731		0.005718	0.010	0.00000025102
05001AA	APRICOTS-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	20,000 P	0.673786	1.123	0.00002957921	0.04100 0.04100 0.04100	0.000234 0.000319 0.000828	0.000 0.001 0.001	0.0000001027 0.0000001400 0.00000003635
05001DA	APRICOTS-DRIED 10 RAW-FRESH OR NFS 22 COOKED-FRESH-BAKED	20,000 P	0.048480	0.081	0.00000212827	0.23000 0.23000	0.000079 0.000014	0.000 0.000	0.00000000347 0.00000000061
05002AA	CHERRIES-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 62 COOKED-FRESH OR FROZEN-BAKED	20,000 P	0.643508	1.073	0.00002825000	0.34000 0.34000 0.34000 0.34000 0.34000	0.002508 0.001500 0.004265 0.002667	0.004 0.003 0.007 0.004	0.00000011010 0.00000006585 0.00000018723 0.00000011708
05002DA	CHERRIES-DRIED 00 NOT SPECIFIED	20,000 P	0.000080	0.000	0.00000000351	2.07000	0.000002	0.000	0.00000000009
05002JA	CHERRIES-JUICE 15 RAW-FRESH OR CANNED 21 COOKED-NFS	20,000 P	0.102240	0.170	0.00000448834	0.34000 0.34000	0.001063 0.000096	0.002 0.000	0.00000004667 0.00000000421
05003AA	NECTARINES 10 RAW-FRESH OR NFS	20,000 P	0.259324	0.432	0.00001138432	0.22000	0.002853	0.005	0.00000012525
05004AA	PEACHES-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 51 COOKED-CANNED	20,000 P	4.307832	7.180	0.00018911382	0.51700 0.51700 0.51700 0.51700	0.051945 0.005085 0.041300 0.013028	0.087 0.008 0.069 0.022	0.00000228039 0.00000022323 0.00000181307 0.00000057193
05004DA	PEACHES-DRIED 10 RAW-FRESH OR NFS 21 COOKED-NFS	20,000 P	0.006944	0.012	0.00000030484	3.52000 3.52000	0.000093 0.000082	0.000 0.000	0.00000000408 0.00000000360
05005AA	PLUMS(DAWSONS)-FRESH 10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED	20,000 P	0.497252	0.829	0.00002182936	0.06900 0.06900	0.001284 0.000431	0.002 0.001	0.00000005637 0.00000001892
05005DA	PLUMS-PRUNES(DRIED) 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	20,000 P	0.348426	0.581	0.00001529590	0.27600 0.27600 0.27600	0.000170 0.001197 0.000236	0.000 0.002 0.000	0.00000000746 0.00000005255 0.00000001036
05005JA	PLUMS/PRUNE-JUICE 10 RAW-FRESH OR NFS 62 COOKED-FRESH OR FROZEN-BAKED	20,000 P	0.385134	0.642	0.00001690738	0.13800 0.13800	0.001895 0.000003	0.003 0.000	0.00000008319 0.00000000013
CROP GROUP TOTALS FOR STONE FRUITS:									
			7.273006	12.122	0.00031928496		0.153177	0.222	0.00000584647

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS TYPE	THRC (UG/KG/DAY)	%RFD	THRC ONCO RISK	ANTICIPATED		
							RESIDUE (PPM)	ARC (UG/KG/DAY)	ARC ONCO RISK
01002AA	BLACKBERRIES 10 RAW-FRESH OR NFS 21 COOKED-NFS 62 COOKED-FRESH OR FROZEN-BAKED	25,000	P	0.160670	0.268	0.00000705341	0.36100	0.000288	0.00000001264
01003AA	BOYSENBERRIES 10 RAW-FRESH OR NFS	25,000	P	0.018283	0.030	0.00000080262	0.36100	0.001028	0.00000004513
01004AA	DEWBERRIES 00 NOT SPECIFIED	25,000	P	0.058575	0.098	0.00000257144	0.36100	0.001005	0.00000004412
01005AA	LOGANBERRIES 00 NOT SPECIFIED	25,000	P	0.005100	0.009	0.00000022389	0.19800	0.000145	0.00000000637
01006AA	RASPBERRIES 10 RAW-FRESH OR NFS 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED 62 COOKED-FRESH OR FROZEN-BAKED 70 RAW-FROZEN	25,000	P	0.071652	0.119	0.00000314552	0.19800	0.000464	0.00000002037
01007AA	YOUNGBERRIES 00 NOT SPECIFIED	25,000	P	0.008925	0.015	0.00000039181	0.19800	0.000404	0.00000001774
01009AA	BLUEBERRIES 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 62 COOKED-FRESH OR FROZEN-BAKED	15,000	P	0.135711	0.226	0.00000595771	0.19800	0.000341	0.00000001497
01011AA	CURRENTS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	15,000	P	0.008193	0.014	0.00000035967	0.02300	0.000123	0.00000000540
01014AA	GRAPES-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	10,000	P	0.437931	0.730	0.00001922517	0.02300	0.000025	0.0000000110
01014DA	GRAPES-RAISINS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	50,000	P	0.848650	1.414	0.00003725574	0.02300	0.000011	0.0000000048
01014JA	GRAPES-JUICE 10 RAW-FRESH OR NFS 15 RAW-FRESH OR CANNED 21 COOKED-NFS 22 COOKED-FRESH-BAKED	10,000	P	1.081152	1.802	0.00004746257	0.19800	0.000003	0.00000000013
01016AA	STRAWBERRIES 10 RAW-FRESH OR NFS	15,000	P	0.520633	0.868	0.00002285579	0.19800	0.000000	0.00000000000
							0.19800	0.000105	0.00000000461
							0.07400	0.001795	0.00000007880
							0.07400	0.000060	0.0000000263
							0.07400	0.001386	0.00000006085
							0.33300	0.003405	0.00000014948
							0.33300	0.000320	0.0000001405
							0.33300	0.001927	0.00000008460
							0.07400	0.000619	0.00000002717
							0.07400	0.005803	0.00000025475
							0.07400	0.000245	0.0000001076
							0.26600	0.006438	0.000000028263

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CROP GROUP TOTALS FOR SMALL FRUITS AND BERRIES:										
24004AA	RICE-ROUGH	10.000	P	0.030600	0.051	0.00000134334	0.57000	0.000008	0.000	0.00000000035
	21 COOKED-NFS						0.57000	0.001736	0.003	0.00000007621
	23 COOKED-FRESH-BOILED						0.57000	0.001736	0.003	0.00000007621
24004AB	RICE-MILLED	10.000	P	1.552627	2.588	0.00006816033	0.06300	0.003260	0.005	0.00000014311
	21 COOKED-NFS						0.06300	0.001375	0.002	0.00000006036
	22 COOKED-FRESH-BAKED						0.06300	0.004647	0.008	0.00000020400
	23 COOKED-FRESH-BOILED						0.06300	0.000500	0.001	0.00000002195
	31 COOKED-FRESH OR CANNED									
CROP GROUP TOTALS FOR CEREAL GRAINS:										
03001AA	ALMONDS	0.300	P	0.000841	0.001	0.00000003692	0.10000	0.000131	0.000	0.00000000575
	10 RAW-FRESH OR NFS						0.10000	0.000094	0.000	0.00000000413
	21 COOKED-NFS						0.10000	0.000056	0.000	0.00000000246
	22 COOKED-FRESH-BAKED									
CROP GROUP TOTALS FOR TREE NUTS:										
53001BA	BEEF-NEAT BYPRODUCTS	0.500	P	0.008831	0.015	0.00000038768	0.00087	0.000014	0.000	0.00000000061
	21 COOKED-NFS						0.00087	0.000001	0.000	0.00000000004
	26 COOKED-FRESH-PICKLED,CORNEED,OR CURED									
53001BB	BEEF(ORGAN MEATS)-OTHER	0.500	P	0.003017	0.005	0.00000013245	0.00990	0.000051	0.000	0.00000000224
	21 COOKED-NFS						0.00990	0.000008	0.000	0.00000000035
	51 COOKED-CANNED									
53001DA	BEEF-DRIED	0.500	P	0.001266	0.002	0.00000005558	0.00087	0.000002	0.000	0.00000000009
	21 COOKED-NFS									
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW)	0.500	P	0.186038	0.310	0.000000816707	0.00260	0.000004	0.000	0.00000000018
	10 RAW-FRESH OR NFS						0.00260	0.000385	0.001	0.00000001690
	21 COOKED-NFS						0.00260	0.000065	0.000	0.00000000285
	22 COOKED-FRESH-BAKED						0.00260	0.000087	0.000	0.00000000382
	23 COOKED-FRESH-BOILED						0.00260	0.000370	0.001	0.00000001624
	24 COOKED-FRESH-BROILED						0.00260	0.000056	0.000	0.00000000246
	25 COOKED-FRESH-FRIED									
53001KA	BEEF(ORGAN MEATS)-KIDNEY	3.000	P	0.001439	0.002	0.00000006317	0.00990	0.000005	0.000	0.00000000022
	21 COOKED-NFS									

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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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	ARC ONCO RISK
53001LA	BEEF(ORGAN MEATS)-LIVER 25 COOKED-FRESH-FRIED 31 COOKED-FRESH OR CANNED	3.000	P	0.062094	0.103	0.00000272593	0.00820	0.000167	0.000	0.00000000733
53001MA	BEEF(BONELESS)-LEAN (W/O REMOVEABLE FAT) 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 23 COOKED-FRESH-BOILED 24 COOKED-FRESH-BROILED	0.500	P	0.580995	0.968	0.00002550568	0.00087	0.000000	0.000	0.00000000000
53002BA	GOAT-MEAT BYPRODUCTS 00 NOT SPECIFIED	0.500	P	0.000000	0.000	0.00000000000	0.00087	0.000000	0.000	0.00000000000
53002BB	GOAT(ORGAN MEATS)-OTHER 00 NOT SPECIFIED	0.500	P	0.000000	0.000	0.00000000000	0.00990	0.000000	0.000	0.00000000000
53002FA	GOAT(BONELESS)-FAT 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED	0.500	P	0.000020	0.000	0.00000000088	0.00260	0.000000	0.000	0.00000000000
53002KA	GOAT(ORGAN MEATS)-KIDNEY 00 NOT SPECIFIED	3.000	P	0.000003	0.000	0.00000000013	0.00990	0.000000	0.000	0.00000000000
53002LA	GOAT(ORGAN MEATS)-LIVER 00 NOT SPECIFIED	3.000	P	0.000003	0.000	0.00000000013	0.00820	0.000000	0.000	0.00000000000
53002MA	GOAT(BONELESS)-LEAN (W/O REMOVEABLE FAT) 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED	0.500	P	0.000095	0.000	0.00000000047	0.00087	0.000000	0.000	0.00000000000
53003AA	HORSE 00 NOT SPECIFIED	3.000	P	0.000003	0.000	0.00000000013	3.00000	0.000003	0.000	0.00000000013
53005BA	SHEEP-MEAT BYPRODUCTS 21 COOKED-NFS	0.500	P	0.000025	0.000	0.00000000110	0.00087	0.000000	0.000	0.00000000000
53005BB	SHEEP(ORGAN MEATS)-OTHER 21 COOKED-NFS	0.500	P	0.000010	0.000	0.00000000044	0.00087	0.000000	0.000	0.00000000000
53005FA	SHEEP(BONELESS)-FAT 21 COOKED-NFS	0.500	P	0.002148	0.004	0.00000009430	0.00990	0.000000	0.000	0.00000000000
53005KA	SHEEP(ORGAN MEATS)-KIDNEY 21 COOKED-NFS	3.000	P	0.000024	0.000	0.00000000105	0.00260	0.000011	0.000	0.00000000048
53005LA	SHEEP(ORGAN MEATS)-LIVER 00 NOT SPECIFIED	3.000	P	0.000003	0.000	0.00000000013	0.00990	0.000000	0.000	0.00000000000
53005MA	SHEEP(BONELESS)-LEAN (W/O REMOVEABLE FAT) 21 COOKED-NFS	0.500	P	0.006242	0.010	0.00000027402	0.00820	0.000000	0.000	0.00000000000
53006BA	PORK-MEAT BYPRODUCTS 31 COOKED-FRESH OR CANNED	0.500	P	0.012540	0.021	0.00000055051	0.00087	0.000010	0.000	0.00000000044
53006BB	PORK(ORGAN MEATS)-OTHER 21 COOKED-NFS	0.500	P	0.001925	0.003	0.00000008451	0.00087	0.000001	0.000	0.00000000004
							0.00037	0.000009	0.000	0.00000000040
							0.00430	0.000015	0.000	0.00000000066

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 02/23/96

PAGE: 8

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Iprodione (Glycophene) Caswell #470A CAS No. 36734-19-7 A.I. CODE: 109801 CFR No. 180.399 185.3750		2yr feeding- rat NOEL= 6,1000 mg/kg 150.00 ppm LEL= 12.4000 mg/kg 300.00 ppm ONCO: B2 (HCPRC)	Enlargement of the cells of the zona glomerulosa in M&F. Evidence of carcinogenicity in mice (liver; M&F) & rats (testicular; M).	ADI UF -->100 OPP RfD= 0.060000 EPA RfD= 0.040000 q*: 0.04390	No data gaps.	WHO reviewed 1977 HED reviewed 12/19/86 EPA verified 07/15/87 WHO reviewed 1992 RfD/PR reviewed 02/10/94 On IRIS.

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS TYPE	TMRC (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK
53006FA	26 COOKED-FRESH-PICKLED,CORNE	0.500	P	0.104101	0.174	0.00000457003	0.00430	0.000001	0.000	0.000000000004
	10 RAW-FRESH OR NFS									
	21 COOKED-NFS									
	23 COOKED-FRESH-BOILED									
	25 COOKED-FRESH-FRIED									
	26 COOKED-FRESH-PICKLED,CORNE									
53006KA	26 COOKED-FRESH-PICKLED,CORNE	3.000	P	0.000032	0.000	0.00000000140	0.00430	0.000000	0.000	0.000000000000
	21 COOKED-NFS									
53006LA	21 COOKED-NFS	3.000	P	0.014458	0.024	0.00000063471	0.00350	0.000015	0.000	0.000000000666
	25 COOKED-FRESH-FRIED									
53006MA	26 COOKED-FRESH-PICKLED,CORNE	0.500	P	0.195623	0.326	0.00000858785	0.00037	0.000067	0.000	0.00000000294
	21 COOKED-NFS									
	25 COOKED-FRESH-FRIED									
	26 COOKED-FRESH-PICKLED,CORNE									
CROP GROUP TOTALS FOR RED MEAT:										
				1.180935	1.968	0.00005184305	0.00268	0.00268	0.004	0.00000011713

55008BA	TURKEY-BYPRODUCTS	1.000	P	0.000236	0.000	0.00000001036	0.00057	0.000000	0.000	0.000000000000
	21 COOKED-NFS									
	26 COOKED-FRESH-PICKLED,CORNE									
55008LA	TURKEY-GIBLETS (LIVER)	5.000	P	0.000268	0.000	0.00000001177	0.01040	0.000000	0.000	0.000000000000
	21 COOKED-NFS									
	25 COOKED-FRESH-FRIED									
55008MA	TURKEY-FLESH(W/O SKIN & W/O BONES)	1.000	P	0.007973	0.013	0.00000035001	0.00057	0.000003	0.000	0.000000000013
	21 COOKED-NFS									
	31 COOKED-FRESH OR CANNED									
	62 COOKED-FRESH OR FROZEN-BAKED									
55008MB	TURKEY-FLESH(+SKIN & W/O BONES)	3.500	P	0.168579	0.281	0.00000740062	0.00440	0.000200	0.000	0.00000000878
	21 COOKED-NFS									
	25 COOKED-FRESH-FRIED									
55008MC	TURKEY-UNSPECIFIED	1.000	P	0.000095	0.000	0.00000000417	0.00440	0.000012	0.000	0.00000000053
	21 COOKED-NFS									
55013BA	POULTRY/OTHER-BYPRODUCTS	1.000	P	0.000001	0.000	0.00000000004	0.00057	0.000000	0.000	0.000000000000
	00 NOT SPECIFIED									
55013LA	POULTRY/OTHER-GIBLETS(LIVER)	5.000	P	0.001161	0.002	0.0000005097	0.01040	0.000002	0.000	0.000000000009
	25 COOKED-FRESH-FRIED									
55013MA	POULTRY/OTHER-FLESH (+SKIN & W/O BONES)	3.500	P	0.018859	0.031	0.0000082791	0.00440	0.000024	0.000	0.00000000105
	21 COOKED-NFS									
55015BA	CHICKEN-BYPRODUCTS	1.000	P	0.000001	0.000	0.00000000004	0.00057	0.000000	0.000	0.000000000000
	00 NOT SPECIFIED									

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CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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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)	ARC	ONCO RISK
55015LA	CHICKEN-GIBLETS(LIVER) 21 COOKED-NFS	5.000	P	0.025313	0.042	0.0000011124		0.01040	0.000002	0.000	0.0000000009
	25 COOKED-FRESH-FRIED							0.01040	0.000047	0.000	0.00000000206
	26 COOKED-FRESH-PICKLED,CORNED,OR CURED							0.01040	0.000004	0.000	0.00000000018
55015WA	CHICKEN-FLESH(W/O SKIN & W/O BONES) 21 COOKED-NFS	1.000	P	0.060136	0.100	0.00000263997		0.00057	0.000022	0.000	0.00000000097
	22 COOKED-FRESH-BAKED							0.00057	0.000003	0.000	0.00000000013
	25 COOKED-FRESH-FRIED							0.00057	0.000001	0.000	0.00000000004
	31 COOKED-FRESH OR CANNED							0.00057	0.000005	0.000	0.00000000022
	53 COOKED-CANNED-BOILED							0.00057	0.000003	0.000	0.00000000013
55015WB	CHICKEN-FLESH(+SKIN & W/O BONES) 21 COOKED-NFS	3.500	P	1.327622	2.213	0.00005828261		0.00440	0.000909	0.002	0.00000003991
	25 COOKED-FRESH-FRIED							0.00440	0.000760	0.001	0.00000003336
CROP GROUP TOTALS FOR POULTRY:											
				1.610244	2.684	0.00007068971			0.001999	0.003	0.00000008776
50000DB	MILK-NON-FAT SOLIDS 10 RAW-FRESH OR NFS	0.500	P	3.556431	5.927	0.00015612732		0.00730	0.041642	0.069	0.00000182808
	21 COOKED-NFS							0.00730	0.008438	0.014	0.00000037043
	51 COOKED-CANNED							0.00730	0.001844	0.003	0.00000008095
50000FA	MILK-FAT SOLIDS 10 RAW-FRESH OR NFS	0.500	P	1.691807	2.820	0.00007427033		0.00730	0.019446	0.032	0.00000085368
	21 COOKED-NFS							0.00730	0.005180	0.009	0.00000022740
	51 COOKED-CANNED							0.00730	0.000075	0.000	0.00000000329
50000SA	MILK SUGAR (LACTOSE) 21 COOKED-NFS	0.500	P	0.018714	0.031	0.00000082154		0.00730	0.000000	0.000	0.00000000000
	51 COOKED-CANNED							0.00730	0.000273	0.000	0.00000001198
55014AA	EGGS-WHOLE 10 RAW-FRESH OR NFS	1.500	P	0.846753	1.411	0.00003717246		0.00240	0.000010	0.000	0.00000000044
	21 COOKED-NFS							0.00240	0.000749	0.001	0.00000003288
	22 COOKED-FRESH-BAKED							0.00240	0.000144	0.000	0.00000000632
	23 COOKED-FRESH-BOILED							0.00240	0.000059	0.000	0.00000000259
	25 COOKED-FRESH-FRIED							0.00240	0.000393	0.001	0.00000001725
55014AB	EGGS-WHITE ONLY 10 RAW-FRESH OR NFS	1.500	P	0.013807	0.023	0.00000060613		0.00240	0.000000	0.000	0.00000000000
	21 COOKED-NFS							0.00240	0.000002	0.000	0.00000000009
	22 COOKED-FRESH-BAKED							0.00240	0.000015	0.000	0.00000000066
	62 COOKED-FRESH OR FROZEN-BAKED							0.00240	0.000001	0.000	0.00000000004
	81 COOKED-FROZEN							0.00240	0.000003	0.000	0.00000000013
55014AC	EGGS-YOLK ONLY 10 RAW-FRESH OR NFS	1.500	P	0.009948	0.017	0.00000043672		0.00240	0.000002	0.000	0.00000000009

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CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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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	ARC ONCO RISK
	21 COOKED-NFS			6.137460	10.229	0.00026943449	0.00240	0.000005	0.000	0.000000000022
	25 COOKED-FRESH-FRIED						0.00240	0.000006	0.000	0.000000000026
	31 COOKED-FRESH OR CANNED						0.00240	0.000003	0.000	0.000000000013
CROP GROUP TOTALS FOR DAIRY PRODUCTS:										
				6.137460	10.229	0.00026943449	0.078290	0.078290	0.130	0.00000343693

GRAND TOTALS FOR U.S. POPULATION - 48 STATES

32.792308 54.654 0.00143958232 0.342495 0.571 0.00001503553

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

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TABLE 4

DETAILED ACUTE ANALYSIS INCLUDING AR/S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 11:58 Thursday, February 22, 1996 50

 *NAME: GLYCOPHENE (IPRODIONE) *****
 CASMELL NO: 470A CFR NO: CFR180.399 A 00000.2500 000500.000 000100 Reprductn Rat Systemic Minimum 0000001519
 CAS NO: 36734-19-7 SHAUGHNESSY NO: 109801 B 00001.7860 001250.000 000100 Chron-onco Mouse Systemic Minimum 0000001519
 STATUS CODES: C 00000.6000 002400.000 000100 Subchronic Dog Systemic Minimum 0000001519
 *RDV INFO: The LD value used in this analysis is 0.06 MG/KG of BODY WEIGHT/DAY
 FILE INFO: No Tolerance Data Are Used--Without User Modifications. AR DATA: No User Modifications

 -FEMALES(13+ YRS) *****

ESTIMATED % OF POTENTIAL		MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY														
PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV														
0.00	0.000000	0.00														
99.80	0.030459	50.76														
ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=																
0	.2	.4	.6	.8	1	1.2	1.4	1.6	1.8	2	3	4	5	10	15	20
100	53	32	21	15	11	9	7	6	5	5	2	1	1	0	0	0

TOLERANCES:
 ANTICIPATED RESIDUES:
 Exposure = RDV x X
 = 0.06 x 10
 High End Exposure = 0.6
 MOE = Moel + Exposure
 = 60 mg/kg/day + 0.6 mg/kg/day
 MOE = 100

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