



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 *B2*
Dietary Risk Evaluation Section
Science Analysis Branch/HED (7509C)

THROUGH: Elizabeth Doyle, Section Head *E.A. Doyle*
Dietary Risk Evaluation Section
SAB/Health Effects Division *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 Q_1 's for both mice and rats are found in a B. Fisher memo, 7/19/94. The Q_1 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 ($\text{NOEL/exposure} = \text{MOE}$). 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			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).	AD1 OPP RfD= 0.060000 EPA RfD= 0.040000 Q*: 0.04390	UF -->100	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)	
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	
01011AA	CURRENTS	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	
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-RAISINS	10 RAW-FRESH OR NFS	4H5415	P 50.000000	0.333000C	PDP+ Proc	100.00	0.333000	
01014AA	GRAPES-RAISINS	21 COOKED-NFS	4H5415	P 50.000000	0.333000C	PDP+ Proc	100.00	0.333000	
01014AA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	4H5415	P 50.000000	0.333000C	PDP+ Proc	100.00	0.333000	
01014JA	GRAPES-JUICE	10 RAW-FRESH OR NFS	3F2964	P 10.000000	0.074000C	PDP+ Proc	100.00	0.074000	
01014JA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	3F2964	P 10.000000	0.074000C	PDP+ Proc	100.00	0.074000	
01014JA	GRAPES-JUICE	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	22 COOKED-FRESH-BAKED	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	

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 470A

DATE: 02/23/96

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			ADI	UF		
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).	OPP RfD= 0.060000 EPA RfD= 0.040000	100	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)
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
05002AA	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	21 COOKED-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
			ADI	UF		
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).	OPP RfD= 0.060000 EPA RfD= 0.040000	-->100	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		ANTICIPATED	AR	STATISTIC TYPE	% CROP TREATED	RES. VALUE USED
				PET.#	(ppm)	RESIDUE (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-BULB	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
14013AB	POTATO(WH)-UNSP	22 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)-PEEL	22 COOKED-FRESH-BAKED	6F3366	P	0.500000	0.001400C PDP + Proc			100.00	0.001400
14017AA	SHALLOTS	00 NOT SPECIFIED	4F3111	P	0.500000	0.008800	Monitor data		100.00	0.008800
15001AA	BEANS-DRY-GRN NO	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 Of IRIS.

FOOD CODE	FOOD	FOOD FORM	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
53001DA	BEEF-DRYED	21 COOKED-NFS	4F3129	P 0.500000	0.000870	Feeding study	100.00	0.000870
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	4F3129	P 0.500000	0.002600	Feeding study	100.00	0.002600
53001FA	BEEF-FAT	21 COOKED-NFS	4F3129	P 0.500000	0.002600	Feeding study	100.00	0.002600
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 OR CANNED	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

ANTICIPATE

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= 0.0400000 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.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
553001MA	BEEF-LEAN	21 COOKED-NFS	4F3129	P 0.500000	0.000870	Feeding study	100.00	0.000870
553001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	4F3129	P 0.500000	0.000870	Feeding study	100.00	0.000870
553001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	4F3129	P 0.500000	0.000870	Feeding study	100.00	0.000870
553001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	4F3129	P 0.500000	0.000870	Feeding study	100.00	0.000870
553002BA	GOAT-MEAT BYP	00 NOT SPECIFIED	4F3129	P 0.500000	0.000870	Feeding study	100.00	0.000870
553002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED	4F3129	P 0.500000	0.009900	Feeding study	100.00	0.009900
553002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	4F3129	P 0.500000	0.002600	Feeding study	100.00	0.002600
553002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	4F3129	P 0.500000	0.002600	Feeding study	100.00	0.002600
553002KA	GOAT-KIDNEY	00 NOT SPECIFIED	3F2964	P 3.000000	0.009900	Feeding study	100.00	0.009900
553002LA	GOAT-LIVER	00 NOT SPECIFIED	3F2964	P 3.000000	0.008200	Feeding study	100.00	0.008200
553002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	4F3129	P 0.500000	0.000870	Feeding study	100.00	0.000870
553002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	4F3129	P 0.500000	0.000870	Feeding study	100.00	0.000870
553003AA	HORSE	00 NOT SPECIFIED	4F3129	P 3.000000	3.000000	Tolerance	100.00	3.000000
553005BA	SHEEP-MEAT BYP	21 COOKED-NFS	4F3129	P 0.500000	0.000870	Feeding study	100.00	0.000870
553005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	4F3129	P 0.500000	0.009900	Feeding study	100.00	0.009900
553005FB	SHEEP-FAT	21 COOKED-NFS	4F3129	P 0.500000	0.002600	Feeding study	100.00	0.002600
553005FA	SHEEP-KIDNEY	21 COOKED-NFS	3F2964	P 3.000000	0.009900	Feeding study	100.00	0.009900
553005LA	SHEEP-LIVER	00 NOT SPECIFIED	3F2964	P 3.000000	0.008200	Feeding study	100.00	0.008200
553005MA	SHEEP-LEAN	21 COOKED-NFS	4F3129	P 0.500000	0.000870	Feeding study	100.00	0.000870
553006BA	PORK-MEAT BYP	31 COOKED-FRESH OR CANNED	4F3129	P 0.500000	0.000870	Feeding study	100.00	0.000870
553006BB	PORK-OTH ORGAN	21 COOKED-NFS	4F3129	P 0.500000	0.000370	Feeding study	100.00	0.000370
553006BB	PORK-OTH ORGAN	26 COOKED-NFS	4F3129	P 0.500000	0.004300	Feeding study	100.00	0.004300
553006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	4F3129	P 0.500000	0.004300	Feeding study	100.00	0.004300
553006FA	PORK-FAT	10 RAW-FRESH OR NFS	4F3129	P 0.500000	0.001100	Feeding study	100.00	0.001100
553006FA	PORK-FAT	21 COOKED-NFS	4F3129	P 0.500000	0.001100	Feeding study	100.00	0.001100
553006FA	PORK-FAT	23 COOKED-FRESH-BOILED	4F3129	P 0.500000	0.001100	Feeding study	100.00	0.001100
553006FA	PORK-FAT	25 COOKED-FRESH-FRIED	4F3129	P 0.500000	0.001100	Feeding study	100.00	0.001100
553006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	4F3129	P 0.500000	0.001100	Feeding study	100.00	0.001100
553006KA	PORK-KIDNEY	21 COOKED-NFS	3F2964	P 3.000000	0.004300	Feeding study	100.00	0.004300
553006LA	PORK-LIVER	21 COOKED-NFS	3F2964	P 3.000000	0.003500	Feeding study	100.00	0.003500
553006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	3F2964	P 3.000000	0.003500	Feeding study	100.00	0.003500
553006MA	PORK-LEAN	21 COOKED-NFS	4F3129	P 0.500000	0.000370	Feeding study	100.00	0.000370
553006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	4F3129	P 0.500000	0.000370	Feeding study	100.00	0.000370
553006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	4F3129	P 0.500000	0.000370	Feeding study	100.00	0.000370
550088A	TURKEY-BYP	21 COOKED-NFS	6F3443	P 1.000000	0.000570	Feeding study	100.00	0.000570
550088A	TURKEY ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F3443	P 1.000000	0.000570	Feeding study	100.00	0.000570
550088A	TURKEY ORGAN	21 COOKED-NFS	6F3443	P 5.000000	0.010400	Feeding study	100.00	0.010400
550088A	TURKEY ORGAN	25 COOKED-FRESH-FRIED	6F3443	P 5.000000	0.010400	Feeding study	100.00	0.010400
550088A	TURKEY W/O SKIN	21 COOKED-NFS	6F3443	P 1.000000	0.000570	Feeding study	100.00	0.000570
550088A	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	6F3443	P 1.000000	0.000570	Feeding study	100.00	0.000570



DATE: 02/23/96

ANTICIPATED RESIDUE INFORMATION FOR CASHELL NUMBER 470A

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 OPP RfD= 0.060000 EPA RfD= 0.040000 q*: 0.04390	UF -->100	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)
55008NA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	6F3443	P 1.000000	0.000570	Feeding study	100.00	0.000570
55008NB	TURKEY-SKIN	21 COOKED-NFS	6F3443	P 3.500000	0.004400	Feeding study	100.00	0.004400
55008MB	TURKEY-SKIN	25 COOKED-FRESH-FRIED	6F3443	P 3.500000	0.004400	Feeding study	100.00	0.004400
55008MC	TURKEY-UNSPEC	21 COOKED-NFS	6F3443	P 1.000000	0.000570	Feeding study	100.00	0.000570
55013BA	POULTRY, OTH-BYP	00 NOT SPECIFIED	6F3443	P 1.000000	0.010400	Feeding study	100.00	0.010400
55013LA	POULTRY, ORGAN	25 COOKED-FRESH-FRIED	6F3443	P 3.500000	0.004400	Feeding study	100.00	0.004400
55013MA	POULTRY, OTHER	21 COOKED-NFS	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AB	EGGS-WHOLE	21 COOKED-NFS	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AB	EGGS-WHOLE	23 COOKED-FRESH-BOILED	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AB	EGGS-WHITE ONLY	21 COOKED-NFS	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	6F3443	P 1.500000	0.002400	Feeding study	100.00	0.002400
55014AC	EGGS-YOLK ONLY	00 NOT SPECIFIED	6F3443	P 1.000000	0.000570	Feeding study	100.00	0.000570
55015BA	CHICKEN-BYP	21 COOKED-NFS	6F3443	P 5.000000	0.010400	Feeding study	100.00	0.010400
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	6F3443	P 5.000000	0.010400	Feeding study	100.00	0.010400
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F3443	P 5.000000	0.010400	Feeding study	100.00	0.010400
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS	6F3443	P 1.000000	0.000570	Feeding study	100.00	0.000570
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	6F3443	P 1.000000	0.000570	Feeding study	100.00	0.000570
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	6F3443	P 1.000000	0.000570	Feeding study	100.00	0.000570
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	6F3443	P 1.000000	0.000570	Feeding study	100.00	0.000570
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	6F3443	P 1.000000	0.000570	Feeding study	100.00	0.000570
55015MB	CHICKEN+SKIN	21 COOKED-NFS	6F3443	P 3.500000	0.004400	Feeding study	100.00	0.004400
55015NB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	6F3443	P 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 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 UNSPECIFIED:											
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-NFS						0.83000	0.000828	0.001	0.00000003635	
CROP GROUP TOTALS FOR UNSPECIFIED:											
14003AA	CARROTS	5.000	P	0.867397	1.446	0.00003807873	0.02100	0.000843	0.001	0.00000003701	
	10 RAW-FRESH OR NFS						0.02100	0.001067	0.002	0.00000004684	
	21 COOKED-NFS						0.02100	0.000191	0.000	0.00000000838	
	23 COOKED-FRESH-BOILED						0.02100	0.000697	0.001	0.00000003060	
	31 COOKED-FRESH OR CANNED						0.02100	0.000846	0.001	0.00000003714	
	51 COOKED-CANNED										
14013AA	POTATOES(WHITE)-WHOLE	0.500	P	0.170029	0.283	0.00000746427	0.00140	0.000064	0.000	0.00000000281	
	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										
14013AB	POTATOES(WHITE)-UNSPECIFIED	0.500	P	0.000041	0.000	0.000000000180	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	
	22 COOKED-FRESH-BAKED										
14013DA	POTATOES(WHITE)-DRY	0.500	P	0.004223	0.007	0.00000018539	0.00140	0.000001	0.000	0.00000000004	
	10 RAW-FRESH OR NFS						0.00140	0.000001	0.000	0.00000000004	
	31 COOKED-FRESH OR CANNED						0.00140	0.000001	0.000	0.00000000004	
14013HA	POTATOES(WHITE)-PEEL ONLY	0.500	P	0.000011	0.000	0.000000000048	0.00140	0.000000	0.000	0.00000000000	
	22 COOKED-FRESH-BAKED						0.00140	0.000000	0.000	0.00000000000	
CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:											
14007AA	GARLIC	0.100	P	0.000076	0.000	0.000000000334	0.00880	0.000000	0.000	0.00000000000	
	10 RAW-FRESH OR NFS						0.00880	0.000004	0.000	0.00000000018	
	21 COOKED-NFS						0.00880	0.000002	0.000	0.00000000009	
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	0.00000000399	
	22 COOKED-FRESH-BAKED										

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STATUS

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
Iprodione (Glycophene)	2yr feeding- rat	Enlargement of the cells of the zona glomerulosa in M&F.	AD1 UF -->100	No data gaps.		WHO reviewed 1977		HEP reviewed 12/19/86
Caswell #470A	NOEL= 6.1000 mg/kg	150.00 ppm	OPP RfD= 0.060000					EPA verified 07/15/87
CAS No. 36734-19-7	LEL= 12.4000 mg/kg	300.00 ppm	Evidence of carcinogenicity in mice (liver; M&F)					WHO reviewed 1992
A.I. CODE: 109801	ONCO: B2 (HCPRC)		& rats (testicular; M).	Q*: 0.04390				RfD/PR reviewed 02/10/94
CFR No. 180.399								On IRIS.
185.3750								

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMR		%RFD	TMR		ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)		%RFD	ARC	
15001AE	BEANS-DRY-OTHER 21 COOKED-NFS	2.000	P	0.079650	0.133	0.00000349664	0.00005	0.000001	0.00005	0.00000000004	0.000	0.000	0.00000000004	0.000
	25 COOKED-FRESH-FRIED						0.00005	0.000000	0.00005	0.00000000000	0.000	0.000	0.00000000000	0.000
	31 COOKED-FRESH OR CANNED						0.00005	0.000001	0.00005	0.00000000004	0.000	0.000	0.00000000004	0.000
15001AF	BEANS-DRY-PINTO	2.000	P	0.072700	0.121	0.00000319153	0.00005	0.000002	0.00005	0.00000000009	0.000	0.000	0.00000000009	0.000
15002AA	BEANS-SUCCULENT-LIMA 21 COOKED-NFS	2.000	P	0.051330	0.086	0.00000225339	0.00160	0.000000	0.00160	0.00000000000	0.000	0.000	0.00000000000	0.000
	10 RAW-FRESH OR NFS						0.00160	0.000041	0.00160	0.0000000180	0.000	0.000	0.00000000180	0.000
15003AA	BEANS-SUCCULENT-GREEN 21 COOKED-NFS	2.000	P	0.400100	0.667	0.00001756439	0.00160	0.000320	0.00160	0.00000001405	0.001	0.001	0.00000001405	0.001
15003AB	BEANS-SUCCULENT-OTHER 21 COOKED-NFS	2.000	P	0.052768	0.088	0.00000231652	0.00160	0.000000	0.00160	0.00000000000	0.000	0.000	0.00000000000	0.000
	10 RAW-FRESH OR NFS						0.00160	0.000042	0.00160	0.0000000184	0.000	0.000	0.00000000184	0.000
15003AC	BEANS-SUCCULENT-YELLOW, MAX 21 COOKED-NFS	2.000	P	0.010927	0.018	0.00000047970	0.00160	0.000009	0.00160	0.00000000040	0.000	0.000	0.00000000040	0.000
15006AA	PEANUTS-WHOLE 10 RAW-FRESH OR NFS	0.500	P	0.034789	0.058	0.00000152724	0.07500	0.000079	0.07500	0.0000000347	0.000	0.000	0.0000000347	0.000
	21 COOKED-NFS						0.07500	0.004824	0.07500	0.0000021177	0.008	0.008	0.0000021177	0.008
15013AA	MUNG BEANS (SPROUTS) 22 COOKED-FRESH-BAKED 10 RAW-FRESH OR NFS	2.000	P	0.013304	0.022	0.00000058405	0.07500	0.000316	0.07500	0.0000001387	0.001	0.001	0.0000001387	0.001
15022AA	BEANS-DRY-BROADBEANS(MATURE SEED) 00 NOT SPECIFIED	2.000	P	0.000002	0.000	0.00000000009	0.00160	0.000001	0.00160	0.00000000004	0.000	0.000	0.00000000004	0.000
15022AB	BEANS-SUCCULENT-BROADBEANS(IMMAT. SEED)	2.000	P	0.000002	0.000	0.00000000009	0.00160	0.000000	0.00160	0.00000000000	0.000	0.000	0.00000000000	0.000
15023AA	BEANS-DRY-PIGEON BEANS 21 COOKED-NFS	2.000	P	0.000071	0.000	0.00000000312	0.00005	0.000000	0.00005	0.00000000000	0.000	0.000	0.00000000000	0.000
15027AA	BEANS-UNSPECIFIED 21 COOKED-NFS	2.000	P	0.010469	0.017	0.00000045959	0.00160	0.000008	0.00160	0.00000000035	0.000	0.000	0.00000000035	0.000
15030AA	BEANS-DRY-HYACINTH(MATURE SEEDS) 00 NOT SPECIFIED	2.000	P	0.000002	0.000	0.00000000009	0.00005	0.000000	0.00005	0.00000000000	0.000	0.000	0.00000000000	0.000
15030AB	BEANS-SUCCULENT-HYACINTH(YOUNG PODS) 00 NOT SPECIFIED	2.000	P	0.000002	0.000	0.00000000009	0.00005	0.000000	0.00005	0.00000000000	0.000	0.000	0.00000000000	0.000
15031AA	BEANS-DRY-BLACK EYE PEAS(COMPEAS) 21 COOKED-NFS	2.000	P	0.004947	0.008	0.0000021717	0.00160	0.000000	0.00160	0.00000000000	0.000	0.000	0.00000000000	0.000
15032AA	BEANS-DRY-GARBANZO(CHICK PEA) 21 COOKED-NFS	2.000	P	0.001052	0.002	0.00000004618	0.00005	0.000000	0.00005	0.00000000000	0.000	0.000	0.00000000000	0.000
270070A	PEANUTS-OIL 18 PROCESSED OIL	0.050	P	0.002613	0.004	0.00000011471	0.00005	0.000000	0.00005	0.00000000000	0.000	0.000	0.00000000000	0.000
							0.01200	0.000063	0.01200	0.0000000277	0.000	0.000	0.0000000277	0.000

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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	
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 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 LEGUME VEGETABLES:											
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	0.00000001027 0.00000001400 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	0.002508 0.001500 0.004265 0.002667	0.004 0.003 0.007 0.004	0.000000011010 0.00000006585 0.00000018723 0.00000011708	
05002DA	CHERRIES-DRIED 00 NOT SPECIFIED	20,000	P	0.000080	0.000	0.000000000351	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 0.000000000421	
05003AA	NECTARINES 10 RAW-FRESH OR NFS	20,000	P	0.259324	0.432	0.00001138432	0.22000	0.002853	0.005	0.000000012525	
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	0.000000030484	3.52000 3.52000	0.000093 0.000082	0.000 0.000	0.000000000408 0.000000000360	
05005AA	PLUMS(DAMSONS)-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	0.000000008319 0.00000000013	
CROP GROUP TOTALS FOR STONE FRUITS:					12.122	0.00031928496	0.133177	0.222	0.00000584647		

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CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS	
Ipodione (Glycophere) 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 LEL= 12,4000 mg/kg 300.00 ppm ONCO: B2 (HCPRC)	6,1000 mg/kg 150.00 ppm 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.		

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)		THRC (UG/KG/DAY)		%RFD	THRC ONCO RISK		ANTICIPATED RESIDUE (PPM)		ARC (UG/KG/DAY)		%RFD	ARC ONCO RISK	
		TYPE	P	TYPE	P		TYPE	P	TYPE	P	TYPE	P		TYPE	P
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	0.000288		0.000	0.00000001264	
01003AA	BOYSENBERRIES 10 RAW-FRESH OR NFS	25,000	P	0.018283		0.030	0.00000080262		0.36100	0.001028	0.001028		0.002	0.00000004513	
01004AA	DEWBERRIES 00 NOT SPECIFIED	25,000	P	0.058575		0.098	0.00000257144		0.36100	0.001005	0.001005		0.002	0.00000004412	
01005AA	LOGANBERRIES 00 NOT SPECIFIED	25,000	P	0.005100		0.009	0.00000022389		0.19800	0.000145	0.000145		0.000	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	0.000404	0.000404		0.001	0.00000001774	
01007AA	YOUNGBERRIES 00 NOT SPECIFIED	25,000	P	0.008925		0.015	0.00000039181		0.19800	0.000341	0.000341		0.001	0.00000001497	
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	0.000064	0.000064		0.000	0.00000000281	
01011AA	CURRENTS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	15,000	P	0.008193		0.014	0.00000035967		0.19800	0.000054	0.000054		0.000	0.00000000237	
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		0.19800	0.000056	0.000056		0.000	0.00000000246	
01014DA	GRAPES-RAISINS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	50,000	P	0.848650		1.414	0.00003725574		0.19800	0.000053	0.000053		0.000	0.00000000233	
01014JA	GRAPES-JUICE 10 RAW-FRESH OR NFS 15 RAW-FRESH OR CANNED 21 COOKED-NFS	10,000	P	1.081152		1.802	0.00004746257		0.19800	0.000071	0.000071		0.000	0.00000000312	
01016AA	STRAWBERRIES 10 RAW-FRESH OR NFS	15,000	P	0.520633		0.868	0.00002285579		0.02300	0.000123	0.000123		0.000	0.00000000540	
									0.02300	0.000025	0.000025		0.000	0.00000000110	
									0.02300	0.000011	0.000011		0.000	0.00000000048	
									0.02300	0.000049	0.000049		0.000	0.00000000215	
									0.19800	0.000003	0.000003		0.000	0.00000000013	
									0.19800	0.000000	0.000000		0.000	0.00000000000	
									0.19800	0.000105	0.000105		0.000	0.00000000461	
									0.07400	0.001795	0.001795		0.003	0.00000007880	
									0.07400	0.000060	0.000060		0.000	0.00000000263	
									0.07400	0.001386	0.001386		0.002	0.00000006085	
									0.33300	0.003405	0.003405		0.006	0.00000014948	
									0.33300	0.000320	0.000320		0.001	0.00000001405	
									0.33300	0.001927	0.001927		0.003	0.00000008460	
									0.07400	0.000619	0.000619		0.001	0.00000002717	
									0.07400	0.005803	0.005803		0.010	0.00000025475	
									0.07400	0.000245	0.000245		0.000	0.00000001076	
									0.26600	0.006438	0.006438		0.011	0.00000002863	

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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	
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 On IRIS.			
FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC TYPE (UG/KG/DAY)	%RFD	TMRC ONCO RISK	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	ARC ONCO RISK	
COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES										
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	
	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	
	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					0.06300	0.000500	0.001	0.00000002195	
CROP GROUP TOTALS FOR CEREAL GRAINS:										
				1.583227	2.639	0.00006950367	0.013262	0.022	0.00000058220	
03001AA	ALMONDS	0.300	P	0.000841	0.001	0.00000003692	0.10000	0.000131	0.000	
	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:										
				0.000841	0.001	0.00000003692	0.000281	0.000	0.00000001234	
53001BA	BEEF-MEAT BYPRODUCTS	0.500	P	0.008831	0.015	0.00000038768	0.00087	0.000014	0.000	
	21 COOKED-NFS						0.00087	0.000001	0.000	
53001BB	BEEF(ORGAN MEATS)-OTHER	0.500	P	0.003017	0.005	0.00000013245	0.00990	0.000051	0.000	
	21 COOKED-NFS						0.00990	0.000008	0.000	
	51 COOKED-CANNED									
53001DA	BEEF-DRIED	0.500	P	0.001266	0.002	0.00000005558	0.00087	0.000002	0.000	
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW)	0.500	P	0.186038	0.310	0.000000816707	0.00260	0.000004	0.000	
	10 RAW-FRESH OR NFS						0.00260	0.000385	0.001	
	21 COOKED-NFS						0.00260	0.000065	0.000	
	22 COOKED-FRESH-BAKED						0.00260	0.000087	0.000	
	23 COOKED-FRESH-BOILED						0.00260	0.000087	0.000	
	24 COOKED-FRESH-BROILED						0.00260	0.000370	0.001	
	25 COOKED-FRESH-FRIED						0.00260	0.000056	0.000	
53001KA	BEEF(ORGAN MEATS)-KIDNEY	3.000	P	0.001439	0.002	0.00000006317	0.00990	0.000005	0.000	
	21 COOKED-NFS									

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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	
Iprodione (Glycophene) Caswell #470A CAS No. 36734-19-7 A.I. CODE: 109801 CFR No. 180.399 185.3750		2yr feeding- rat	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	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.	
		NOEL=		OPP Rfd=	0.060000				
		LEL=		EPA Rfd=	0.040000				
		ONCO: B2 (HCPRC)		Q*:	0.04390				

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMR		%RFD	TMR		ARC RESIDUE (PPM)	ARC		%RFD	ONCO RISK
			TYPE	(UG/KG/DAY)		ONCO RISK	(UG/KG/DAY)		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	0.500	P	0.580995	0.968	0.00002550568	0.00820	0.000002	0.000	0.00000000009		
	22 COOKED-FRESH-BAKED						0.00087	0.000000	0.000	0.00000000000		
	23 COOKED-FRESH-BOILED						0.00087	0.000602	0.001	0.00000002643		
	24 COOKED-FRESH-BROILED						0.00087	0.000041	0.000	0.00000000180		
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	0.00087	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	0.000000000088	0.00990	0.000000	0.000	0.00000000000		
53002KA	GOAT(ORGAN MEATS)-KIDNEY 00 NOT SPECIFIED	3.000	P	0.000003	0.000	0.000000000013	0.00990	0.000000	0.000	0.00000000000		
53002LA	GOAT(ORGAN MEATS)-LIVER 00 NOT SPECIFIED	3.000	P	0.000003	0.000	0.000000000013	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	0.000000000417	0.00087	0.000000	0.000	0.00000000000		
53003AA	HORSE 00 NOT SPECIFIED	3.000	P	0.000003	0.000	0.000000000013	3.00000	0.000003	0.000	0.00000000013		
53005BA	SHEEP-MEAT BYPRODUCTS 21 COOKED-NFS	0.500	P	0.000025	0.000	0.000000000110	0.00087	0.000000	0.000	0.00000000000		
53005BB	SHEEP(ORGAN MEATS)-OTHER 21 COOKED-NFS	0.500	P	0.000010	0.000	0.000000000044	0.00990	0.000000	0.000	0.00000000000		
53005FA	SHEEP(BONELESS)-FAT 21 COOKED-NFS	0.500	P	0.002148	0.004	0.00000009430	0.00260	0.000011	0.000	0.00000000048		
53005KA	SHEEP(ORGAN MEATS)-KIDNEY 21 COOKED-NFS	3.000	P	0.000024	0.000	0.000000000105	0.00990	0.000000	0.000	0.00000000000		
53005LA	SHEEP(ORGAN MEATS)-LIVER 00 NOT SPECIFIED	3.000	P	0.000003	0.000	0.000000000013	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	0.000000027402	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	0.000000008451	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

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 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

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 40 STATES												
FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC		%RFD	TMRC		ANTICIPATED RESIDUE (PPM)		%RFD	ARC	
			TYPE	(UG/KG/DAY)		ONCO RISK	(UG/KG/DAY)	ONCO RISK	(UG/KG/DAY)		ONCO RISK	
53006FA	26 COOKED-FRESH-PICKLED, CORNED, OR CURED PORK(BONELESS)-FAT (INCLUDING LARD)	0.500	P	0.104101	0.174	0.000000457003	0.00430	0.000001	0.000	0.000000000004	0.000000000000	
	10 RAW-FRESH OR NFS						0.00110	0.000002	0.000	0.000000000009	0.000000000000	
	21 COOKED-NFS						0.00110	0.000107	0.000	0.00000000470	0.000000000000	
	23 COOKED-FRESH-BOILED						0.00110	0.000025	0.000	0.00000000110	0.000000000000	
	25 COOKED-FRESH-FRIED						0.00110	0.000027	0.000	0.00000000119	0.000000000000	
53006KA	26 COOKED-FRESH-PICKLED, CORNED, OR CURED PORK(ORGAN MEATS)-KIDNEY	3.000	P	0.000032	0.000	0.000000000140	0.00110	0.000068	0.000	0.000000000299	0.000000000000	
	21 COOKED-NFS						0.00430	0.000000	0.000	0.000000000000	0.000000000000	
53006LA	PORK(ORGAN MEATS)-LIVER	3.000	P	0.014458	0.024	0.000000063471	0.00350	0.000015	0.000	0.000000000066	0.000000000000	
	21 COOKED-NFS						0.00350	0.000002	0.000	0.000000000009	0.000000000000	
	25 COOKED-FRESH-FRIED											
53006MA	PORK(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.500	P	0.195623	0.326	0.000000858785	0.00037	0.000067	0.000	0.000000000294	0.000000000000	
	21 COOKED-NFS						0.00037	0.000018	0.000	0.000000000079	0.000000000000	
	25 COOKED-FRESH-FRIED						0.00037	0.000060	0.000	0.000000000263	0.000000000000	
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED											
CROP GROUP TOTALS FOR RED MEAT:				1.180935	1.968	0.000005184305		0.002668	0.004	0.00000011713		

		1.000	P	0.000236	0.000	0.00000001036	0.00057 0.00057	0.000000 0.000000	0.000 0.000	0.000000000000 0.000000000000
55008BA	TURKEY-BYPRODUCTS 21 COOKED-NFS									
	26 COOKED-FRESH-PICKLED,CORNE D, OR CURED									
55008LA	TURKEY-GIBLETS (LIVER) 21 COOKED-NFS	5.000	P	0.000268	0.000	0.00000001177				
	25 COOKED-FRESH-FRIED						0.01040 0.01040	0.000000 0.000000	0.000 0.000	0.000000000000 0.000000000000
55008MA	TURKEY-FLESH(W/O SKIN & W/O BONES) 21 COOKED-NFS	1.000	P	0.007973	0.013	0.000000035001				
	31 COOKED-FRESH OR CANNED						0.00057 0.00057	0.000003 0.000001	0.000 0.000	0.000000000013 0.000000000004
	62 COOKED-FRESH OR FROZEN-BAKED						0.00057	0.000001	0.000	0.000000000004
55008MB	TURKEY-FLESH(+SKIN & W/O BONES) 21 COOKED-NFS	3.500	P	0.168579	0.281	0.00000740062				
	25 COOKED-FRESH-FRIED						0.00440 0.00440	0.000200 0.000012	0.000 0.000	0.00000000878 0.00000000053
55008MC	TURKEY-UNSPECIFIED 21 COOKED-NFS	1.000	P	0.000095	0.000	0.000000000417				
55013BA	POULTRY/OTHER-BYPRODUCTS 00 NOT SPECIFIED	1.000	P	0.000001	0.000	0.000000000004				
55013LA	POULTRY/OTHER-GIBLETS(LIVER) 25 COOKED-FRESH-FRIED	5.000	P	0.001161	0.002	0.000000005097				
55013MA	POULTRY/OTHER-FLESH (+SKIN & W/O BONES) 21 COOKED-NFS	3.500	P	0.018859	0.031	0.00000082791				
55015BA	CHICKEN-BYPRODUCTS 00 NOT SPECIFIED	1.000	P	0.000001	0.000	0.000000000004				
							0.00057	0.000000	0.000	0.000000000000
							0.01040	0.000002	0.000	0.000000000009
							0.00440	0.000024	0.000	0.000000000105
							0.00057	0.000000	0.000	0.000000000000

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 02/23/96

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

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS		TMR	TMR	%RFD	ONCO RISK	ANTICIPATED		%RFD	ONCO RISK
			TYPE	(UG/KG/DAY)	TYPE	(UG/KG/DAY)			RESIDUE (PPM)	ARC (UG/KG/DAY)		
55015LA	CHICKEN-GIBLETS(LIVER)	5.000	P	0.025313	0.042	0.0000011124			0.01040	0.000002	0.000	0.00000000009
	21 COOKED-NFS								0.01040	0.000047	0.000	0.000000000206
	25 COOKED-FRESH-FRIED								0.01040	0.000004	0.000	0.000000000018
55015WA	CHICKEN-FLESH(W/O SKIN & W/O BONES)	1.000	P	0.060136	0.100	0.00000263997			0.00057	0.000022	0.000	0.000000000097
	21 COOKED-NFS								0.00057	0.000003	0.000	0.000000000013
	22 COOKED-FRESH-BAKED								0.00057	0.000001	0.000	0.000000000004
	25 COOKED-FRESH-FRIED								0.00057	0.000005	0.000	0.000000000022
	31 COOKED-FRESH OR CANNED								0.00057	0.000003	0.000	0.000000000013
55015WB	CHICKEN-FLESH(+SKIN & W/O BONES)	3.500	P	1.327622	2.213	0.00005828261			0.00440	0.000909	0.002	0.000000003991
	21 COOKED-NFS								0.00440	0.000760	0.001	0.000000003336
	25 COOKED-FRESH-FRIED											
CROP GROUP TOTALS FOR POULTRY:										0.001999	0.003	0.00000008776
50000DB	MILK-NON-FAT SOLIDS	0.500	P	3.556431	5.927	0.00015612732			0.00730	0.041642	0.069	0.00000182808
	10 RAW-FRESH OR NFS								0.00730	0.008438	0.014	0.00000037043
	21 COOKED-NFS								0.00730	0.001844	0.003	0.00000008095
50000FA	MILK-FAT SOLIDS	0.500	P	1.691807	2.820	0.00007427033			0.00730	0.019446	0.032	0.00000085368
	10 RAW-FRESH OR NFS								0.00730	0.005180	0.009	0.00000022740
	21 COOKED-NFS								0.00730	0.000075	0.000	0.00000000329
50000SA	MILK SUGAR (LACTOSE)	0.500	P	0.018714	0.031	0.00000082154			0.00730	0.000000	0.000	0.00000000000
	21 COOKED-NFS								0.00730	0.000273	0.000	0.00000001198
55014AA	EGGS-WHOLE	1.500	P	0.846753	1.411	0.00003717246			0.00240	0.000010	0.000	0.00000000044
	10 RAW-FRESH OR NFS								0.00240	0.000749	0.001	0.00000003288
	21 COOKED-NFS								0.00240	0.000144	0.000	0.00000000632
	22 COOKED-FRESH-BAKED								0.00240	0.000059	0.000	0.00000000259
	23 COOKED-FRESH-BOILED								0.00240	0.000393	0.001	0.00000001725
	25 COOKED-FRESH-FRIED											
55014AB	EGGS-WHITE ONLY	1.500	P	0.013807	0.023	0.00000060613			0.00240	0.000000	0.000	0.00000000000
	10 RAW-FRESH OR NFS								0.00240	0.000002	0.000	0.00000000009
	21 COOKED-NFS								0.00240	0.000015	0.000	0.00000000066
	22 COOKED-FRESH-BAKED								0.00240	0.000001	0.000	0.00000000004
	62 COOKED-FRESH OR FROZEN-BAKED								0.00240	0.000003	0.000	0.00000000013
	81 COOKED-FROZEN											
55014AC	EGGS-YOLK ONLY	1.500	P	0.009948	0.017	0.00000043672			0.00240	0.000002	0.000	0.00000000009
	10 RAW-FRESH OR NFS											

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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 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)		TMRC (UG/KG/DAY)		%RFD		TMRC ONCO RISK		ANTICIPATED RESIDUE (PPM)		ARC (UG/KG/DAY)		%RFD		ARC ONCO RISK	
		TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE
	21 COOKED-NFS																
	25 COOKED-FRESH-FRIED																
	31 COOKED-FRESH OR CANNED																
CROP GROUP TOTALS FOR DAIRY PRODUCTS:				6.137460		10.229		0.00026943449		0.00240		0.000005		0.000		0.000000000022	

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=PENDING; P=PUBLISHED
TMRC=THEORETICAL MAXIMUM RESIDUE CONTRIBUTION
ARC = ANTICIPATED RESIDUE CONTRIBUTION
RFD = REFERENCE DOSE

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		ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING X TIMES THE RDV, FOR X=																
		0	.2	.4	.6	.8	1	1.2	1.4	1.6	1.8	2	3	4	5	10	15	20
TOLERANCES:		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANTICIPATED RESIDUES:		100	53	32	21	15	11	9	7	6	5	5	2	1	1	0	0	0

Exposure = RfV x X
= 0.06 x 10
High End Exposure = 0.6

MOE = Noel ÷ Exposure
= 60 mg/kg/day ÷ 0.6 mg/kg/day
MOE = 100