

4-28-92



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

PC035001

MEMORANDUM

APR 28 1992

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

SUBJECT: RfD Exceeders Project: Dietary Exposure Analysis
for Dimethoate

FROM: Stephen A. Schaible *SSA*
Dietary Exposure Section
HED/SACB (H7509C) *JAL*

TO: Jack Housenger, Acting Chief
Special Review Branch
Special Review and Reregistration Division (H7508W) *WJH*

As part of the RfD Exceeders Project, Dietary Exposure Section was requested by SRRD to conduct a DRES chronic exposure analysis for dimethoate, using anticipated residues generated by CBRS and percent of crop treated information supplied by BEAD.

Toxicological Endpoints

A Reference Dose (RfD) of 0.0002 mg/kg body weight/day was used in this analysis, based on a no observed effect level (NOEL) of 0.05 mg/kg bwt/day and an uncertainty factor of 300. The RfD is based on a two year feeding study in rats in which the effect demonstrated was brain cholinesterase inhibition. This RfD has been approved by both HED (3/04/88) and Agency (3/23/88) RfD committees.

Residue Information

Food uses evaluated in this analysis were the food uses listed in 40 CFR 180.204. Percent crop treated information used in this analysis was supplied by BEAD in the form of a Preliminary Quantitative Usage Analysis (PQUA) of dimethoate (S. Zavolta, 2/5/91). Anticipated residues (ARs) for the combined residues of dimethoate and its oxygen analog were supplied by Chemistry Branch II- Reregistration Support (M. Metzger, 3/2/92) and are based on FDA Monitoring data.

Residues were determined for each commodity such that, assuming a log normal distribution of the FDA data, no more than 5% of residues are predicted to be in excess of the anticipated residue level. Percent of crop treated estimates were incorporated into the residue values by assuming half the limit of detection (0.005 ppm, for dimethoate and its oxygen analog combined) for a portion of the FDA data, so that the ratio of detectable residues plus non-detectable residues assumed at 0.005



ppm to the total number of residue samples (in the FDA data) for each commodity equalled the percent of crop treated value supplied by BEAD for that commodity (for further discussion of the method by which Chemistry determined the residue values, see M. Metzger memo). In the DRES analysis, percent crop treated refinements were not used for commodities where anticipated residues were supplied, since percent crop treated estimates had already been incorporated into the residue estimates. Where anticipated residues were not calculated for a commodity, tolerance level residues and percent crop treated estimates supplied in the BEAD PQUA (Zavolta, 2/5/91) were used.

A few of the percent of crop treated estimates used by Chemistry Branch in the calculating of anticipated residues differ slightly from the estimates listed in the February 1991 PQUA (e.g., soybeans, grapes). However, the differences seem to be small enough that we would not expect the calculated residues to change (personal communication, M. Metzger, 4/13/92). A summary of the residue information used in this analysis is attached as Table 1.

DRES Analysis

The DRES chronic exposure analysis used percent crop treated information and anticipated residues to estimate the Anticipated Residue Contribution (ARC) for the overall U.S. population and 22 population subgroups. The ARC for the overall U.S. population from published uses of dimethoate is 0.000089 mg/kg bwt/day, which represents 45% of the Reference Dose. The subgroup most highly exposed, non-nursing infants less than one year old, has an ARC of 0.000177 mg/kg bwt/day, or 88% of the RfD. Using anticipated residues and percent of crop treated information, the dietary exposure is less than the RfD for the general population and all 22 subgroups of the population. A summary of the TMRCs, the ARCs, and their representations as percentages of the Reference Dose for the overall U.S. population and the 22 population subgroups is attached as Table 2.

Attachments

cc: DES, CBRS, Tox 1, P. Parsons, E. Budd, Caswell # 535

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TABLE 1

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 358

DATE: 03/09/92

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CHEMICAL			STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Dimethoate Caswell #358 CAS No. 60-51-5 A.I. CODE: 035001 CFR No. 180.204			2yr feeding- rat NOEL= 0.0500 mg/kg LEL= 0.2500 mg/kg 5.00 ppm		Brain CHE inhibition. No evidence of oncogeni- city in mice, rat study inadequate.		PADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000200		Chronic feeding- dog Developmental tox- rabbit		HED complete 03/06/87. EPA verified 03/18/87. HED reassess 03/04/88. EPA verified 03/23/88. WHO last reviewed 1987. 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)				
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	3F1301	P 1.000000	0.017000	FDA MON	100.00	0.017000				
01014AA	GRAPES-FRESH	21 COOKED-NFS	3F1301	P 1.000000	0.017000	FDA MON	100.00	0.017000				
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	3F1301	P 1.000000	0.017000	FDA MON	100.00	0.017000				
01014DA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	3F1301	P 1.000000	0.017000	FDA MON	100.00	0.017000				
01014DA	GRAPES-RAISINS	21 COOKED-NFS	3F1301	P 1.000000	0.017000	FDA MON	100.00	0.017000				
01014DA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	3F1301	P 1.000000	0.017000	FDA MON	100.00	0.017000				
01014JA	GRAPES-JUICE	10 RAW-FRESH OR NFS	3F1301	P 1.000000	0.017000	FDA MON	100.00	0.017000				
01014JA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	3F1301	P 1.000000	0.017000	FDA MON	100.00	0.017000				
01014JA	GRAPES-JUICE	21 COOKED-NFS	3F1301	P 1.000000	0.017000	FDA MON	100.00	0.017000				
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	1F1040	P 2.000000	0.002000	FDA MON	100.00	0.002000				
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	1F1040	P 2.000000	0.002000	FDA MON	100.00	0.002000				
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	1F1040	P 2.000000	0.002000	FDA MON	100.00	0.002000				
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	1F1040	P 2.000000	0.002000	FDA MON	100.00	0.002000				
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	1F1040	P 2.000000	0.002000	FDA MON	100.00	0.002000				
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	8F0661	P 2.000000	0.009000	FDA MON	100.00	0.009000				
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	8F0661	P 2.000000	0.009000	FDA MON	100.00	0.009000				
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	8F0661	P 2.000000	0.009000	FDA MON	100.00	0.009000				
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	8F0661	P 2.000000	0.009000	FDA MON	100.00	0.009000				
02004JA	LEMONS-PEEL	10 RAW-FRESH OR NFS	8F0661	P 2.000000	0.036000	FDA MON	100.00	0.036000				
02004JA	LEMONS-PEEL	21 COOKED-NFS	8F0661	P 2.000000	0.036000	FDA MON	100.00	0.036000				
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	8F0661	P 2.000000	0.008000	FDA MON	100.00	0.008000				
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	8F0661	P 2.000000	0.008000	FDA MON	100.00	0.008000				
02004JA	LEMONS-JUICE	21 COOKED-NFS	8F0661	P 2.000000	0.008000	FDA MON	100.00	0.008000				
02006AA	ORANGES-UNSPEC	31 COOKED-FRESH OR CANNED	8F0661	P 2.000000	0.005000	FDA MON	100.00	0.005000				
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	8F0661	P 2.000000	0.005000	FDA MON	100.00	0.005000				
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	8F0661	P 2.000000	0.005000	FDA MON	100.00	0.005000				
02006AB	ORANGES-PULP	21 COOKED-NFS	8F0661	P 2.000000	0.005000	FDA MON	100.00	0.005000				
02006JA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	8F0661	P 2.000000	0.020000	FDA MON	100.00	0.020000				
02006JA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	8F0661	P 2.000000	0.020000	FDA MON	100.00	0.020000				
02006JA	ORANGES-JUICE	15 RAW-FRESH OR CANNED	8F0661	P 2.000000	0.004000	FDA MON	100.00	0.004000				
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	8F0661	P 2.000000	0.004000	FDA MON	100.00	0.004000				
02008AA	TANGERINES	10 RAW-FRESH OR NFS	1F1040	P 2.000000	0.006000	FDA MON	100.00	0.006000				
02008JA	TANGERINE-JUICE	15 RAW-FRESH OR CANNED	1F1040	P 2.000000	0.006000	FDA MON	100.00	0.006000				
03008AA	PECANS	10 RAW-FRESH OR NFS	9F0812	P 0.100000	0.100000	FDA MON	7.00	0.007000				
03008AA	PECANS	21 COOKED-NFS	9F0812	P 0.100000	0.100000	FDA MON	7.00	0.007000				
03008AA	PECANS	22 COOKED-FRESH-BAKED	9F0812	P 0.100000	0.100000	FDA MON	7.00	0.007000				
03008AA	PECANS	23 COOKED-FRESH-BOILED	9F0812	P 0.100000	0.100000	FDA MON	7.00	0.007000				
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	9F0812	P 0.100000	0.100000	FDA MON	7.00	0.007000				
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000				

N/A w/ PET and ARs

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Dimethoate Caswell #358 CAS No. 60-51-5 A.I. CODE: 035001 CFR No. 180.204		2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 0.2500 mg/kg 5.00 ppm ONCO: Negative- 1 species		Brain CHE inhibition. No evidence of oncogeni- city in mice, rat study inadequate.		PAD1 UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000200		Chronic feeding- dog Developmental tox- rabbit		HED complete 03/06/87. EPA verified 03/18/87. HED reassess 03/04/88. EPA verified 03/23/88. WHO last reviewed 1987. 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)		
04001AA	APPLES-FRESH	21 COOKED-NFS	385	P 2.000000	0.006000	FDA	MON	100.00	0.006000		
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.006000	FDA	MON	100.00	0.006000		
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	385	P 2.000000	0.006000	FDA	MON	100.00	0.006000		
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	385	P 2.000000	0.006000	FDA	MON	100.00	0.006000		
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	385	P 2.000000	0.006000	FDA	MON	100.00	0.006000		
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	385	P 2.000000	0.006000	FDA	MON	100.00	0.006000		
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	385	P 2.000000	0.010000C	FDA	MON	100.00	0.010000		
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.010000C	FDA	MON	100.00	0.010000		
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	385	P 2.000000	0.008000	FDA	MON	100.00	0.008000		
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.008000	FDA	MON	100.00	0.008000		
04003AA	PEARS-FRESH	51 COOKED-FRESH OR CANNED	385	P 2.000000	0.008000	FDA	MON	100.00	0.008000		
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	385	P 2.000000	0.008000	FDA	MON	100.00	0.008000		
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	385	P 2.000000	0.008000	FDA	MON	100.00	0.008000		
04003DA	PEARS-DRIED	21 COOKED-NFS	385	P 2.000000	0.008000	FDA	MON	100.00	0.008000		
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	7E1949	P 2.000000	0.031000	FDA	MON	100.00	0.031000		
05002AA	CHERRIES-FRESH	21 COOKED-NFS	7E1949	P 2.000000	0.031000	FDA	MON	100.00	0.031000		
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	7E1949	P 2.000000	0.031000	FDA	MON	100.00	0.031000		
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	7E1949	P 2.000000	0.031000	FDA	MON	100.00	0.031000		
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	7E1949	P 2.000000	0.031000	FDA	MON	100.00	0.031000		
05002DA	CHERRIES-DRIED	15 RAW-FRESH OR CANNED	7E1949	P 2.000000	0.031000	FDA	MON	100.00	0.031000		
05002JA	CHERRIES-JUICE	21 COOKED-NFS	7E1949	P 2.000000	0.031000	FDA	MON	100.00	0.031000		
10002AA	CANTALOUPE-JUICE	00 NOT SPECIFIED (NO CONSUMPTION)	7E0578	P 1.000000	0.010000	FDA	MON	100.00	0.010000		
10002AA	CANTALOUPE-JUICE	00 NOT SPECIFIED (NO CONSUMPTION)	7E0578	P 1.000000	0.010000	FDA	MON	100.00	0.010000		
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	7E0578	P 1.000000	0.010000	FDA	MON	100.00	0.010000		
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	7E0578	P 1.000000	0.010000	FDA	MON	100.00	0.010000		
10003AA	CASABAS	10 RAW-FRESH OR NFS	7E0578	P 1.000000	0.010000	FDA	MON	100.00	0.010000		
10004AA	CRENSHAW'S	00 NOT SPECIFIED (NO CONSUMPTION)	7E0578	P 1.000000	0.010000	FDA	MON	100.00	0.010000		
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	7E0578	P 1.000000	0.010000	FDA	MON	100.00	0.010000		
10007AA	PERSIAN MELONS	00 NOT SPECIFIED (NO CONSUMPTION)	7E0578	P 1.000000	0.010000	FDA	MON	100.00	0.010000		
10008AA	WATERMELON	10 RAW-FRESH OR NFS	7E0578	P 1.000000	0.006000	FDA	MON	100.00	0.006000		
10008AA	WATERMELON	21 COOKED-NFS	7E0578	P 1.000000	0.006000	FDA	MON	100.00	0.006000		
11003AA	PEPPERS,SWEET	10 RAW-FRESH OR NFS	385	P 2.000000	0.023000	FDA	MON	100.00	0.023000		
11003AA	PEPPERS,SWEET	21 COOKED-NFS	385	P 2.000000	0.023000	FDA	MON	100.00	0.023000		
11003AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	385	P 2.000000	0.023000	FDA	MON	100.00	0.023000		
11003AB	CHILI PEPPERS	10 RAW-FRESH OR NFS	385	P 2.000000	0.023000	FDA	MON	100.00	0.023000		
11003AD	PEPPERS-OTHER	21 COOKED-NFS	385	P 2.000000	0.023000	FDA	MON	100.00	0.023000		
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	385	P 2.000000	0.023000	FDA	MON	100.00	0.023000		
11004AA	PIMIENTOS	10 RAW-FRESH OR NFS	385	P 2.000000	0.023000	FDA	MON	100.00	0.023000		
11004AA	PIMIENTOS	21 COOKED-NFS	385	P 2.000000	0.023000	FDA	MON	100.00	0.023000		
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	385	P 2.000000	0.006000	FDA	MON	100.00	0.006000		

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 358

DATE: 03/09/92

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CHEMICAL		STUDY TYPE	EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
Dimethoate Caswell #358 CAS No. 60-51-5 A.I. CODE: 035001 CFR No. 180.204		2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 0.2500 mg/kg 5.00 ppm ONCO: Negative- 1 species	Brain Che inhibition. No evidence of oncogeni- city in mice, rat study inadequate.		PAD1 UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000200		Chronic feeding- dog Developmental tox- rabbit		HED complete 03/06/87. EPA verified 03/18/87. HED reassess 03/04/88. EPA verified 03/23/88. WHO last reviewed 1987. 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)	
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000	
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.006000	FDA MON	100.00	0.006000	
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000	
11005JA	TOMATOES-JUICE	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000	
11005RA	TOMATOES-PUREE	10 RAW-FRESH OR NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000	
11005RA	TOMATOES-PUREE	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000	
11005RA	TOMATOES-PUREE	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.006000	FDA MON	100.00	0.006000	
11005RA	TOMATOES-PUREE	32 COOKED-FRESH OR CANNED-BAKED	385	P 2.000000	0.006000	FDA MON	100.00	0.006000	
11005RA	TOMATOES-PUREE	51 COOKED-CANNED	385	P 2.000000	0.006000	FDA MON	100.00	0.006000	
11005TA	TOMATOES-PASTE	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000	
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	385	P 2.000000	0.006000	FDA MON	100.00	0.006000	
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.006000	FDA MON	100.00	0.006000	
11005UA	TOMATOES-PASTE	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000	
13002AA	CELERY	10 RAW-FRESH OR NFS	5F1531	P 2.000000	0.011000	FDA MON	100.00	0.011000	
13002AA	CELERY	21 COOKED-NFS	5F1531	P 2.000000	0.011000	FDA MON	100.00	0.011000	
13005AA	BROCCOLI	21 COOKED-NFS	6E3323	P 2.000000	0.013000	FDA MON	100.00	0.013000	
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	6E3323	P 2.000000	0.013000	FDA MON	100.00	0.013000	
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	6E3323	P 2.000000	0.013000	FDA MON	100.00	0.013000	
13007AA	CABBAGE	10 RAW-FRESH OR NFS	6E3323	P 2.000000	0.012000	FDA MON	100.00	0.012000	
13007AA	CABBAGE	11 RAW-FRESH-PICKLED, CORNED, OR CURED	6E3323	P 2.000000	0.012000	FDA MON	100.00	0.012000	
13007AA	CABBAGE	21 COOKED-NFS	6E3323	P 2.000000	0.012000	FDA MON	100.00	0.012000	
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	6E3323	P 2.000000	0.011000	FDA MON	100.00	0.011000	
13008AA	CAULIFLOWER	21 COOKED-NFS	6E3323	P 2.000000	0.011000	FDA MON	100.00	0.011000	
13009AA	COLLARDS	51 COOKED-CANNED	6E3323	P 2.000000	0.018000	FDA MON	100.00	0.018000	
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	6E3323	P 2.000000	0.018000	FDA MON	100.00	0.018000	
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	6E3323	P 2.000000	0.012000	FDA MON	100.00	0.012000	
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	6E3323	P 2.000000	0.012000	FDA MON	100.00	0.012000	
13011AA	KALE	63 COOKED-FRESH OR FROZEN-BOILED	6E3323	P 2.000000	0.005000	FDA MON	100.00	0.005000	
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR NFS	385	P 2.000000	0.011000	FDA MON	100.00	0.011000	
13015AA	ENDIVE	10 RAW-FRESH OR NFS	385	P 2.000000	0.038000	FDA MON	100.00	0.038000	
13015AA	ENDIVE	21 COOKED-NFS	385	P 2.000000	0.038000	FDA MON	100.00	0.038000	
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	5F1531	P 2.000000	0.011000	FDA MON	100.00	0.011000	
13020AA	LETTUCE-UNSPEC	10 RAW-FRESH OR NFS	385	P 2.000000	0.034000	FDA MON	100.00	0.034000	
13021AA	MUSTARD GREENS	21 COOKED-NFS	6E3323	P 2.000000	0.067000	FDA MON	100.00	0.067000	
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	6E3323	P 2.000000	0.067000	FDA MON	100.00	0.067000	
13024AA	SPINACH	10 RAW-FRESH OR NFS	385	P 2.000000	0.024000	FDA MON	100.00	0.024000	
13024AA	SPINACH	21 COOKED-NFS	385	P 2.000000	0.024000	FDA MON	100.00	0.024000	
13024AA	SPINACH	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.024000	FDA MON	100.00	0.024000	
13025AA	SWISS CHARD	10 RAW-FRESH OR NFS	385	P 2.000000	0.038000	FDA MON	100.00	0.038000	
13025AA	SWISS CHARD	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.038000	FDA MON	100.00	0.038000	

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Dimethoate Caswell #358 CAS No. 60-51-5 A.I. CODE: 035001 CFR No. 180.204	2yr feeding - rat NOEL = 0.0500 mg/kg 1.00 ppm LET = 0.2500 mg/kg 5.00 ppm ONCO: Negative- 1 species	Brain CHE inhibition. No evidence of oncogenicity in mice, rat study inadequate.	PADI UF -->300 OPP RfD = 0.000200 EPA RfD = 0.000200	Chronic feeding- dog Developmental tox- rabbit	HED complete 03/06/87. EPA verified 03/18/87. HED reassess 03/04/88. EPA verified 03/23/88. WHO last reviewed 1987. 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)
13025AA	SWISS CHARD	63 COOKED-FRESH OR FROZEN-BOILED	385	P 2.000000	0.038000	FDA MON	100.00	0.038000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	385	P 2.000000	0.024000	FDA MON	100.00	0.024000
13026AA	TURNIPS-TOPS	21 COOKED-NFS	385	P 2.000000	0.024000	FDA MON	100.00	0.024000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.024000	FDA MON	100.00	0.024000
13045AA	LETTUCE-HEAD	10 RAW-FRESH OR NFS	385	P 2.000000	0.034000	FDA MON	100.00	0.034000
13045AA	LETTUCE-HEAD	21 COOKED-NFS	385	P 2.000000	0.034000	FDA MON	100.00	0.034000
14013AA	POTATOC(WH)-WHOLE	10 RAW-FRESH OR NFS	7F0578	P 0.200000	0.001000	FDA MON	100.00	0.001000
14013AA	POTATOC(WH)-WHOLE	21 COOKED-NFS	7F0578	P 0.200000	0.001000	FDA MON	100.00	0.001000
14013AA	POTATOC(WH)-WHOLE	22 COOKED-FRESH-BAKED	7F0578	P 0.200000	0.001000	FDA MON	100.00	0.001000
14013AB	POTATOC(WH)-UNSP	22 COOKED-FRESH-BAKED	7F0578	P 0.200000	0.001000	FDA MON	100.00	0.001000
14013AC	POTATOC(WH)-PULP	21 COOKED-NFS	7F0578	P 0.200000	0.001000	FDA MON	100.00	0.001000
14013AC	POTATOC(WH)-PULP	22 COOKED-FRESH-BAKED	7F0578	P 0.200000	0.001000	FDA MON	100.00	0.001000
14013AC	POTATOC(WH)-PULP	23 COOKED-FRESH-BOILED	7F0578	P 0.200000	0.001000	FDA MON	100.00	0.001000
14013AC	POTATOC(WH)-PULP	25 COOKED-FRESH-FRIED	7F0578	P 0.200000	0.001000	FDA MON	100.00	0.001000
14013DA	POTATOC(WH)-DRY	10 RAW-FRESH OR NFS	7F0578	P 0.200000	0.001000	FDA MON	100.00	0.001000
14013DA	POTATOC(WH)-DRY	31 COOKED-FRESH OR CANNED	7F0578	P 0.200000	0.001000	FDA MON	100.00	0.001000
14013DA	POTATOC(WH)-PEEL	22 COOKED-FRESH-BAKED	7F0578	P 0.200000	0.001000	FDA MON	100.00	0.001000
14019AA	TURNIPS-ROOTS	10 RAW-FRESH OR NFS	385	P 2.000000	0.005000	FDA MON	100.00	0.005000
14019AA	TURNIPS-ROOTS	21 COOKED-NFS	385	P 2.000000	0.005000	FDA MON	100.00	0.005000
15001AA	BEANS-DRY-GRT NO	20 NOT SPECIFIED (NO CONSUMPTION)	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15001AB	BEANS-DRY-KIDNEY	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15001AB	BEANS-DRY-KIDNEY	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15001AB	BEANS-DRY-KIDNEY	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15001AC	BEANS-DRY-LIMA	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15001AD	BEANS-DRY-NAVY	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15001AE	BEANS-DRY-OTHER	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15001AE	BEANS-DRY-OTHER	25 COOKED-FRESH-FRIED	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15001AF	BEANS-DRY-OTHER	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15002AA	BEANS-SUCC-LIMA	10 RAW-FRESH OR NFS	385	P 2.000000	0.028000	FDA MON	100.00	0.028000
15002AA	BEANS-SUCC-LIMA	21 COOKED-NFS	385	P 2.000000	0.028000	FDA MON	100.00	0.028000
15003AA	BEANS-SUCC-GREEN	21 COOKED-NFS	385	P 2.000000	0.028000	FDA MON	100.00	0.028000
15007AA	PEAS DRY-GARDEN	21 COOKED-FRESH OR CANNED	385	P 2.000000	0.067000	FDA MON	100.00	0.067000
15009AA	PEAS SUCC-GARDEN	21 COOKED-NFS	385	P 2.000000	0.067000	FDA MON	100.00	0.067000
15009AA	PEAS SUCC-GARDEN	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.067000	FDA MON	100.00	0.067000
15011AA	LENTILES-WHOLE	21 COOKED-FRESH OR CANNED	3E2890	P 2.000000	0.009000	FDA MON	100.00	0.009000
15011AB	LENTILES-SPLIT	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15013AA	MUNG BEANS	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Dimethoate Caswell #358 CAS No. 60-51-5 A.I. CODE: 035001 CFR No. 180.204	2yr feeding- rat NOEL = 0.0500 mg/kg 1.00 ppm LEL = 0.2500 mg/kg 5.00 ppm ONCO: Negative- 1 species	Brain Che inhibition. No evidence of oncogeni- city in mice, rat study inadequate.	PADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000200	Chronic feeding- dog Developmental tox- rabbit	HED complete 03/06/87. EPA verified 03/18/87. HED reassess 03/04/88. EPA verified 03/23/88. WHO last reviewed 1987. 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)
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	5F1642	P 0.050000	0.050000		10.00	0.005000
15030AA	BEANS-DRY-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15031AA	BLUKEYE PEAS-DRY	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15032AA	BEANS-DRY	21 COOKED-NFS	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	385	P 2.000000	0.006000	FDA MON	100.00	0.006000
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	4F1462	P 0.100000	0.100000		1.00	0.001000
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS	4F1462	P 0.100000	0.100000		1.00	0.001000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	4F1462	P 0.100000	0.100000		1.00	0.001000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	4F1462	P 0.100000	0.100000		1.00	0.001000
24002EA	CORN, GRAIN-ENDO	00 NOT SPECIFIED (NO CONSUMPTION)	4F1462	P 0.100000	0.100000		1.00	0.001000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	4F1462	P 0.100000	0.100000		1.00	0.001000
24002SA	CORN SUGAR	21 COOKED-NFS	4F1462	P 0.100000	0.100000		1.00	0.001000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	4F1462	P 0.100000	0.100000		1.00	0.001000
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	0F0999	P 0.100000	0.100000		1.00	0.001000
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	0F0867	P 0.040000	0.040000		2.00	0.000800
24007AA	WHEAT-ROUGH	21 COOKED-NFS	0F0867	P 0.040000	0.040000		2.00	0.000800
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	0F0867	P 0.040000	0.040000		2.00	0.000800
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	0F0867	P 0.040000	0.040000		2.00	0.000800
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	0F0867	P 0.040000	0.040000		2.00	0.000800
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	0F0867	P 0.040000	0.040000		2.00	0.000800
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	0F0867	P 0.040000	0.040000		2.00	0.000800
24007HA	WHEAT-BRAN	21 COOKED-NFS	0F0867	P 0.040000	0.040000		2.00	0.000800
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	0F0867	P 0.040000	0.040000		2.00	0.000800
24007HA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	0F0867	P 0.040000	0.040000		2.00	0.000800
24007HA	WHEAT-FLOUR	21 COOKED-NFS	0F0867	P 0.040000	0.040000		2.00	0.000800
24007HA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	0F0867	P 0.040000	0.040000		2.00	0.000800
24007HA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	0F0867	P 0.040000	0.040000		2.00	0.000800
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	4F1462	P 0.100000	0.100000		1.00	0.001000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	0F0928	P 0.100000	0.100000		25.00	0.025000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	0F0928	P 0.100000	0.100000		25.00	0.025000
27008AA	SAFFLOWER-SEED	00 NOT SPECIFIED (NO CONSUMPTION)	0F0928	P 0.100000	0.100000		100.00	0.100000
27008AA	SAFFLOWER-SEED	18 PROCESSED OIL	0F0928	P 0.100000	0.100000		100.00	0.100000
270100A	SAFFLOWER-OIL	18 PROCESSED OIL	5F1642	P 0.050000	0.050000		10.00	0.005000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	5F1642	P 0.050000	0.050000		10.00	0.005000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	5F1642	P 0.050000	0.050000		10.00	0.005000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	5F1642	P 0.050000	0.050000		10.00	0.005000
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	5F1642	P 0.050000	0.050000		10.00	0.005000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	5F1642	P 0.050000	0.050000		10.00	0.005000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 358

DATE: 03/09/92

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CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Dimethoate Caswell #358 CAS No. 60-51-5 A.I. CODE: 035001 CFR No. 180.204		2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 0.2500 mg/kg 5.00 ppm ONCO: Negative- 1 species		Brain CHE inhibition. No evidence of oncogeni- city in mice, rat study inadequate.		PAD1 UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000200		Chronic feeding- dog Developmental tox- rabbit		HED complete 03/06/87. EPA verified 03/18/87. HED reassess 03/04/88. EPA verified 03/23/88. WHO last reviewed 1987. 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)
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	5F1642	P 0.050000	0.050000		10.00	0.005000
28023AA	SOY-FL, FULL FAT	21 COOKED-NFS	5F1642	P 0.050000	0.050000		10.00	0.005000
28023MA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	5F1642	P 0.050000	0.050000		10.00	0.005000
28023WA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	5F1642	P 0.050000	0.050000		10.00	0.005000
28023MB	SOY-FL, LOW FAT	21 COOKED-NFS	5F1642	P 0.050000	0.050000		10.00	0.005000
28023MC	SOY-FL,DEFAT	10 RAW-FRESH OR NFS	5F1642	P 0.050000	0.050000		10.00	0.005000
28023MC	SOY-FL,DEFAT	21 COOKED-NFS	5F1642	P 0.050000	0.050000		10.00	0.005000
28023MC	SOY-FL,DEFAT	22 COOKED-FRESH-BAKED	5F1642	P 0.050000	0.050000		10.00	0.005000
28023MC	SOY-FL,DEFAT	51 COOKED-CANNED	5F1642	P 0.050000	0.050000		10.00	0.005000
28023MC	SOY-FL,DEFAT	53 COOKED-CANNED-BOILED	5F1642	P 0.050000	0.050000		10.00	0.005000
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS	3F1301	P 1.000000	0.290000	FDA MON	100.00	0.290000
43058AA	WINE AND SHERRY	21 COOKED-NFS	3F1301	P 1.000000	0.290000	FDA MON	100.00	0.290000
50000DB	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	8F0661	P 0.002000	0.000140	FDA MON	100.00	0.000140
50000DB	MILK-NON-FAT SOL	21 COOKED-NFS	8F0661	P 0.002000	0.000140	FDA MON	100.00	0.000140
50000DB	MILK-NON-FAT SOL	51 COOKED-CANNED	8F0661	P 0.002000	0.000140	FDA MON	100.00	0.000140
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	8F0661	P 0.002000	0.000140	FDA MON	100.00	0.000140
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	8F0661	P 0.002000	0.000140	FDA MON	100.00	0.000140
50000SA	MILK-FAT SOLIDS	51 COOKED-CANNED	8F0661	P 0.002000	0.000140	FDA MON	100.00	0.000140
50000SA	MILK-SUG (LACT)	21 COOKED-NFS	8F0661	P 0.002000	0.000140	FDA MON	100.00	0.000140
53001BA	MILK-SUG (LACT)	51 COOKED-CANNED	8F0661	P 0.002000	0.000140	FDA MON	100.00	0.000140
53001BA	BEEF-MEAT BYP	21 COOKED-NFS	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001BA	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001BB	BEEF-OTH ORGAN	21 COOKED-NFS	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001BB	BEEF-OTH ORGAN	51 COOKED-CANNED	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001DA	BEEF-DRIED	21 COOKED-NFS	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001FA	BEEF-FAT	21 COOKED-NFS	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001KA	BEEF-KIDNEY	21 COOKED-NFS	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001MA	BEEF-LEAN	21 COOKED-NFS	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	8F0661	P 0.020000	0.000017	FDA MON	100.00	0.000017
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017

CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Dimethoate Caswell #358 CAS No. 60-51-5 A.I. CODE: 035001 CFR No. 180.204		2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LET= 0.2500 mg/kg 5.00 ppm ONCO: Negative- 1 species		Brain CHE inhibition. No evidence of oncogeni- city in mice, rat study inadequate.		PADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000200		Chronic feeding- dog Developmental tox- rabbit		HED complete 03/06/87. EPA verified 03/18/87. HED reassess 03/04/88. EPA verified 03/23/88. WHO last reviewed 1987. 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)
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53005FA	SHEEP-FAT	21 COOKED-NFS	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53005MA	SHEEP-LEAN	21 COOKED-NFS	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53006BA	PORK-MEAT BYP	21 COOKED-NFS	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53006BB	PORK-OTH ORGAN	21 COOKED-NFS	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53006FA	PORK-FAT	21 COOKED-NFS	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53006KA	PORK-KIDNEY	21 COOKED-NFS	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53006LA	PORK-LIVER	21 COOKED-NFS	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53006MA	PORK-LEAN	21 COOKED-NFS	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0F0867	P 0.020000	0.000017	FDA MON	100.00	0.000017
53008BA	TURKEY-BYP	21 COOKED-NFS	0F0928	P 0.020000	0.000054	FDA MON	100.00	0.000054
53008BA	TURKEY-BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0F0928	P 0.020000	0.000054	FDA MON	100.00	0.000054
53008LA	TURKEY ORGAN	21 COOKED-NFS	0F0928	P 0.020000	0.000054	FDA MON	100.00	0.000054
53008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	0F0928	P 0.020000	0.000054	FDA MON	100.00	0.000054
53008MA	TURKEY W/O SKIN	21 COOKED-NFS	0F0928	P 0.020000	0.000054	FDA MON	100.00	0.000054
53008MA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	0F0928	P 0.020000	0.000054	FDA MON	100.00	0.000054
53008MA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	0F0928	P 0.020000	0.000054	FDA MON	100.00	0.000054
53008MB	TURKEY*SKIN	21 COOKED-NFS	0F0928	P 0.020000	0.000054	FDA MON	100.00	0.000054
53008MB	TURKEY*SKIN	25 COOKED-FRESH-FRIED	0F0928	P 0.020000	0.000054	FDA MON	100.00	0.000054
53008MC	TURKEY-UNSPEC	21 COOKED-NFS	0F0928	P 0.020000	0.000054	FDA MON	100.00	0.000054
53013BA	POLTRY, OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	0F0928	P 0.020000	0.000054	FDA MON	100.00	0.000054

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 358

DATE: 03/09/92

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CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Dimethoate Caswell #358 CAS No. 60-51-5 A.I. CODE: 035001 CFR No. 180.204		2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 0.2500 mg/kg 5.00 ppm ONCO: Negative- 1 species		Brain ChE inhibition. No evidence of oncogeni- city in mice, rat study inadequate.		PAD1 UF -->300 OPP Rfd= 0.000200 EPA Rfd= 0.000200		Chronic feeding- dog Developmental tox- rabbit		HED complete 03/06/87. EPA verified 03/18/87. HED reassess 03/04/88. EPA verified 03/23/88. WHO last reviewed 1987. On IRLS.	
FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR	STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)		
55013LA	POULTRY, ORGAN	25 COOKED-FRESH-FRIED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55013MA	POULTRY, OTHER	21 COOKED-NFS	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AA	EGGS-WHOLE	21 COOKED-NFS	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AB	EGGS-WHITE ONLY	21 COOKED-NFS	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AB	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55015BA	CHICKEN-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55015LA	CHICKEN-ORGAN	21 COOKED-NFS	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55015MA	CHICKEN-W/O SKIN	21 COOKED-FRESH-BAKED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55015MB	CHICKEN+SKIN	21 COOKED-NFS	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	0F0928	P 0.020000	0.000054	FDA MON		100.00	0.000054		

TABLE 2

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Dimethoate	2yr feeding- rat	NOEL=	0.0500 mg/kg	Brain Che inhibition.	PADI	UF = -->300	Chronic feeding- dog	HED complete 03/06/87.			
Caswell #358	NOEL=	1.00 ppm		No evidence of oncogeni-	OPP	RTD= 0.000200	Developmental tox- rabbit	EPA verified 03/18/87.			
CAS No. 60-51-5	LEL=	0.2500 mg/kg		city in mice, rat study	EPA	RTD= 0.000200		HED reassess 03/04/88.			
A.I. CODE: 035001		5.00 ppm		inadequate.				EPA verified 03/23/88.			
CFR No. 180.204	ONCO: Negative- 1 species							WHO last reviewed 1987.			
POPULATION SUBGROUP											
TOTAL TMRC (MG/KG BODY WEIGHT/DAY)				NEW TMRC		DIFFERENCE		EFFECT OF ANTICIPATED RESIDUES			
CURRENT TMRC*				AS PERCENT		AS PERCENT		ARC			
NEW TMRC**				OF RFD		OF RFD		%			
U.S. POPULATION - 48 STATES	0.012753	0.012753	6376.427000	0.000000	0.000089	44.52450					
U.S. POPULATION - SPRING SEASON	0.012279	0.012279	6139.442500	0.000000	0.000088	43.93050					
U.S. POPULATION - SUMMER SEASON	0.012286	0.012286	6143.074500	0.000000	0.000084	41.88500					
U.S. POPULATION - FALL SEASON	0.013125	0.013125	6562.632500	0.000000	0.000091	45.31650					
U.S. POPULATION - WINTER SEASON	0.013278	0.013278	6638.867000	0.000000	0.000093	46.71200					
NORTHEAST REGION	0.014451	0.014451	7225.292000	0.000000	0.000104	52.19250					
NORTH CENTRAL REGION	0.012432	0.012432	6215.980500	0.000000	0.000079	39.61450					
SOUTHERN REGION	0.011185	0.011185	5592.418000	0.000000	0.000073	36.66700					
WESTERN REGION	0.013592	0.013592	6796.014000	0.000000	0.000109	54.67450					
HISPANICS	0.015384	0.015384	7691.874500	0.000000	0.000079	39.43600					
NON-HISPANIC WHITES	0.012595	0.012595	6297.609500	0.000000	0.000091	45.54050					
NON-HISPANIC BLACKS	0.012110	0.012110	6054.860500	0.000000	0.000079	39.72300					
NON-HISPANIC OTHERS	0.015664	0.015664	7831.779000	0.000000	0.000092	45.94050					
NURSING INFANTS (< 1 YEAR OLD)	0.021726	0.021726	10862.804500	0.000000	0.000098	48.89400					
NON-NURSING INFANTS (< 1 YEAR OLD)	0.036124	0.036124	18062.052000	0.000000	0.000177	88.44800					
FEMALES (13+ YEARS, PREGNANT)	0.010222	0.010222	5110.907000	0.000000	0.000076	37.83500					
FEMALES 13+ YEARS, NURSING	0.011223	0.011223	5611.607500	0.000000	0.000106	52.92750					
CHILDREN (1-6 YEARS OLD)	0.030310	0.030310	15154.801500	0.000000	0.000137	68.34700					
CHILDREN (7-12 YEARS OLD)	0.018303	0.018303	9151.459000	0.000000	0.000092	46.12350					
MALES (13-19 YEARS OLD)	0.011075	0.011075	5537.508500	0.000000	0.000060	30.02350					
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.010173	0.010173	5086.465500	0.000000	0.000057	28.40250					
MALES (20 YEARS AND OLDER)	0.008645	0.008645	4322.650500	0.000000	0.000084	41.95600					
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.009697	0.009697	4848.541000	0.000000	0.000088	44.12600					

*Current TMRC does not include new or pending tolerances.
 **New TMRC includes new, pending, and published tolerances.

new w/ PCT and ARS