

US EPA ARCHIVE DOCUMENT



6-24-94

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

JUN 24 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Acute and Chronic Dietary Exposure Analyses for Proposed Amendment to Mevinphos Tolerances on Select and/or All Proposed Supported Uses.

FROM: Teung F. Chin, Biologist *tfc*
Dietary Risk Evaluation Section
Science Analysis Branch/ HED

TO: Jack Housenger, Chief
Special Review Branch
Special Review and Reregistration Division

THROUGH: Jim Kariya, Head *Kariya*
DRES/SAB *W. Brown*
Health Effects Division

Action Requested

Special Review Branch has requested that a Dietary Risk Evaluation System (DRES) analysis be performed assessing the chronic and acute dietary neurotoxic risk resulting from proposed supported uses of mevinphos (methyl 3[dimethoxyphosphinyl oxy]butenoate, alpha and beta isomers (\$ 180.157); and 2-carboxymethoxy-1-propen-2-yl dimethyl phosphate and its beta isomer (\$ 185.4200). The registrant has proposed to retain 21 crop uses while voluntarily dropping support for 26. Anticipated residues and percent crop treated information were incorporated.

Discussion

1. Toxicological Information: Exposure being calculated in this analysis are from mevinphos residues alone. Considerations for metabolites of mevinphos were not indicated to DRES.

Acute Analysis - An acute Reference Dose (RfD) based on human males, of 0.0025 mg/kg/day was utilized, based on an acute NOEL \geq 0.025 mg/kg/day (4/29/94 J. Whalen memo to K. Baetcke). An uncertainty factor of 10 was utilized.



Chronic Analysis - For the chronic reference dose for neurotoxicity, the RfD (rats) was 0.00025 mg/kg/day, based on a NOEL of 0.025 mg/kg/day and an uncertainty factor of 100 (4/29/94 J. Whalen memo). There was no evidence of carcinogenicity.

2. Residue Information: Food uses evaluated in this analysis were the following: artichokes, broccoli, brussels sprouts, cabbage, cauliflower, celery, chicory, collards, grapes, kale, lettuce, melons, mustard greens, parsley, parsley dehydrated, peas (succulent), spinach, strawberries, trefoil (forage and hay), watercress, and watermelons. (5/9/94 S. Funk memo to D. Edwards). Deleted uses are alfalfa, apples, beans, beets, carrots, cherries, clover, corn, cucumbers, dried peas, eggplant, grapefruit, okra, onions, oranges, peaches, pears, peppers, plums, potatoes, raspberries, sorghum, summer squash, tomatoes, turnip (all), and walnuts. There are no tolerances listed in §186 for meat, milk, poultry and eggs covering possible secondary residues resulting from feed additives. The only existing § 185 tolerance resulting from mevinphos use as food additives is for dehydrated parsley (§ 185.4200). The tolerances in the DRES Tolerance Index System (TIS) listing were compared to the CFR for accuracy. A summary of the residues used in the chronic exposure analysis is attached as Table 1A.

Percent Crop Treated - Percent crop treated information was supplied by the Biological and Economic Analysis Division (BEAD). (Undated 1994 memo A. Jennings to D. Barolo). The uppermost values for percent crop treated estimates were incorporated from the BEAD memo only when the anticipated residues were based on tolerances per § 180.157, for the chronic exposure. Otherwise, the percent crop treated information from the memo had already been incorporated by CBRS II in determining anticipated residue values where FDA monitoring data and USDA (AMS) Pesticide Data Program data were available (5/9/94 S. Funk memo to D. Edwards). For the DRES acute exposure analysis, percent crop treated information was not incorporated.

Anticipated Residues (AR) - Anticipated residue (AR) information was supplied by CBRS (5/9/94 S. Funk memo to D. Edwards). The AR is the 95% UCL for an individual value. Where survey data were not available, the tolerance value was used as the chronic AR. Acute ARs were based in all cases except lettuce on the tolerance. For lettuce, the FDA monitoring data showed samples with residues substantially in excess of tolerance. The maximum residue found was rounded up to a whole number and used as the acute AR for head lettuce and leafy lettuce. FDA and USDA PDP monitoring data are summarized in Tables 2 and 3 of the 5/9/94 S. Funk memo. Commodities with less than 15 samples (N < 15) were not considered, and the tolerance values were used to calculate the AR for such commodities.

Results

1. Chronic Exposure: The DRES chronic exposure analysis used tolerance level residues and 100 percent crop treated to estimate the Theoretical Maximum Residue Contribution (TMRC) for the overall U.S. population and 22 population subgroups. DRES used anticipated residues and percent crop treated information to estimate the Anticipated Residue Contribution (ARC) for those same population groups. Of the two, the ARC is considered the more refined estimate of exposure. A summary of the TMRCs, the ARCs, and their representations as percentages of the RfD is in Table 1B. It should be noted again that the residue of concern in this analysis is mevinphos.

The ARC from the published uses of mevinphos for the general population of the 48 States is 0.000093 mg/kg/bwt/day, which represents 37% of the RfD. There were no pending or "new" tolerances at the time of the calculations. The ARC from published uses for the subgroup most highly exposed, females (13+ years, nursing), is 0.000115 mg/kg/bwt/day, or 46% of the RfD. All other groups were about 30% or more of the RfD except for nursing infants and non-nursing infants who were less than 10%. Minimal risk is expected from chronic dietary intake of mevinphos since the RfD is not exceeded.

2. 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. Each analysis assumes uniform distribution of mevinphos in the commodity supply. Since the toxicological endpoint to which exposure is being compared in this analysis is neurotoxicity, the infant and children subpopulations are 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 ($\text{NOEL} / \text{exposure} = \text{MOE}$). For neurotoxicity, the Agency is generally not concerned unless the MOE is below 10 when the NOEL is based on human studies which is the case here for mevinphos.

In this analysis, the calculated exposure of the highest exposed individuals (Infants <1 yr and Children 1-6 yrs) in the distribution (0.02 mg/kg bwt/day) was compared to the neurotoxicity NOEL of 0.025 mg/kg bwt/day to get an MOE of 1.25. This means that the persons most highly exposed to mevinphos in their diet would receive 1/1.25 the dose that represents the NOEL in humans for neurotoxicity from mevinphos. Calculations show 1% of children (1-6 yrs) are exposed to mevinphos at 0.02 mg/kg bwt/day. Similarly, <1% of infants (<1 yr) are exposed to mevinphos at 0.02 mg/kg/day. A table of the distribution of exposures used in this analysis for all supported uses is

attached as Table 1A. The calculation of the MOE is also included on Table 1A.

Acute dietary risk assessments for nine single commodities were also performed. The tables for the assessed crops and their calculated risks by general and subpopulations are as follows: all supported crops (Table 2), broccoli (Table 3), brussels sprouts (Table 4), cauliflower (Table 5), grapes (Table 6), lettuce (Table 7), green peas (immature) (Table 8), spinach (Table 9), strawberries (Table 10), and watermelon (Table 11).

Comments - Acute Dietary Risk

In calculations for acute dietary risk, the Agency is concerned when the safety factor is less than ten (MOE <10). For some of the analyzed foods (watermelon, spinach, broccoli, brussels sprouts), more than 50% of the eaters of certain subpopulations exceed the MOE (i.e. MOE < 10). In most cases, 1% or less of the entire subpopulation exceed the MOE because of the low percentages of eaters. Children, followed by infants, are more likely to exceed the MOE. Most of the top eaters (usually the top 1-2%) for each subpopulation have MOEs around 2-3. About 14% of children with a diet including all the supported crops have MOEs <10; their MOE is around 3. For infants, 18% of the 25% who consume the supported crops have MOE <10. Among infants, top eaters have an MOE of around one. In conclusion, a percentage of infants and children who are consumers of mevinphos-supported crops may be at acute dietary risk.

Attachments

cc: DRES, IRB, CCB, Tox 1, CBRS, Caswell # 160B

Attachment 1

NOTE TO DRES FILE

The following comments and assumptions relate to the DRES analysis (acute and chronic) as requested by SRRD in response to the registrant proposal for voluntarily dropping support for 26 crops and retaining 21.

The following changes were made for the DRES chronic and acute analyses:

* Jerusalem artichokes were removed from the listing of artichokes and therefore not included in the risk assessments since they are classified differently from globe artichokes.

* Paprika, listed in the May 9, 1994 HED memo (S. Funk to D. Edwards), was not included in the risk assessment since paprika is considered by DRES to be a member of the pepper RAC group.

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

 *NAME: PHOSDRIN (MEVINPHOS) *****
 CASWELL NO: 1608 CFR NO: CFR180.157 A 00000.0025 000000.500 000010 Chronic SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801 B 00000.0012 000001.200 000100 Reproductn Rat Enzymatic Minimum *****
 *STATUS CODES: C 00000.0025 000001.000 000010 Chronic Dog Systemic Minimum *****
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY Dog Enzymatic Minimum *****
 FILE INFO: No Tolerance Data Are Used--Without User Modifications. AR DATA: No User Modifications

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FEMALES(13+ YRS)

ESTIMATES BASED ON TOLERANCES:
 ANTICIPATED RESIDUES:

ESTIMATED % OF POTENTIAL	PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
0	0	0.000000	0.00
0	75.16	0.000947	7.58

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
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOLERANCES:
 ANTICIPATED RESIDUES:

MALES(13+ YRS)

ESTIMATES BASED ON TOLERANCES:
 ANTICIPATED RESIDUES:

ESTIMATED % OF POTENTIAL	PERSON DAYS THAT ARE USER-DAYS	MG/KG BODY WEIGHT/DAY	AS PERCENT OF RDV
0	0	0.000000	0.00
0	75.48	0.000819	6.55

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
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TOLERANCES:
 ANTICIPATED RESIDUES:

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DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

 *NAME: PHOSORIN (MEVINPHOS) *****
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 *STATUS CODES: C 00000.0025 000001.000 000010 Chronic Dog Systemic Minimum *
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY Dog Enzymatic Minimum *
 *FILE INFO: No Tolerance Data Are Used--Without User Modifications. AR DATA: No User Modifications *
 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = I *****
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL) *****
 POPULATION = U.S. POP.--48 STATES

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	: NUMBER OF CONSUMER		: TOLERANCE DATA		: AR DATA		: DAILY	
		: DAYS AS PERCENT OF	: POTENTIAL PERSON DAYS	: VALUE	: SORC (PPM) TYPE	: VALUE (PPM) REF.	: MAXIMUM RESIDUE (EXCL. AR)	: ANTICIPATED RESIDUE (INCL. AR)	
02004HA	31 COOKED-FRESH OR CANNED LEMONS-PEEL	0.32		0.2000		0.2000	0.006003	0.028587	
	10 RAW-FRESH OR NFS	0.17		0.2000		0.2000	0.000483	0.035114	
	21 COOKED-NFS	0.96		0.2000		0.2000	0.165534	0.021072	
02004JA	10 RAW-FRESH OR NFS LEMONS-JUICE	4.77		0.2000		0.2000	0.097837	0.000000	
	15 RAW-FRESH OR CANNED	0.67		0.2000		0.2000	0.080989	0.000274	
	21 COOKED-NFS	12.29		0.2000		0.2000	0.421859	0.641899	
02005AA	31 COOKED-FRESH OR CANNED LIMES-UNSPECIFIED	2.39		0.2000		0.2000	0.105847	0.519613	
	00 NOT SPECIFIED (NO CONSUMPTION)	0.00		0.2000		0.2000	0.350209	0.707991	
02005AB	10 RAW-FRESH OR NFS LIMES-PULP	0.02		0.2000		0.2000	0.000000	1.539310	
	10 RAW-FRESH OR NFS	0.00		0.2000		0.2000	1.605294	1.733768	
02005HA	21 COOKED-NFS LIMES-PEEL	0.00		0.2000		0.2000	0.000000	0.000000	
02005JA	10 RAW-FRESH OR NFS LIMES-JUICE	0.22		0.2000		0.2000	2.479283	0.000000	
	15 RAW-FRESH OR NFS	0.04		0.2000		0.2000	0.000000	3.618612	
	31 COOKED-FRESH OR CANNED TANGELOS	0.10		0.2000		0.2000	0.045925		
02008AA	10 RAW-FRESH OR NFS TANGERINES	0.50		0.2000		0.2000			
	10 RAW-FRESH OR NFS	0.00		0.2000		0.2000			
02008JA	15 RAW-FRESH OR CANNED TANGERINE-JUICE	0.00		0.2000		0.2000			
10002AA	00 NOT SPECIFIED (NO CONSUMPTION) CANTALOUPE-UNSPECIFIED	0.00		0.5000		0.5000			
10002AB	10 RAW-FRESH OR NFS CANTALOUPE-PULP	1.45		0.5000		0.5000			
	21 COOKED-NFS	0.01		0.5000		0.5000			
10003AA	10 RAW-FRESH OR NFS CASABAS	0.02		0.5000		0.5000			
10004AA	00 NOT SPECIFIED (NO CONSUMPTION) CRENSHAW	0.00		0.5000		0.5000			
10005AA	10 RAW-FRESH OR NFS HONEYDEW MELONS	0.38		0.5000		0.5000			
10007AA	00 NOT SPECIFIED (NO CONSUMPTION) PERSION MELONS	0.00		0.5000		0.5000			
10008AA	10 RAW-FRESH OR NFS WATERMELON	1.06		0.5000		0.5000			
	21 COOKED-NFS	0.10		0.5000		0.5000			

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DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

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 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801 B 00000.0012 000001.200 000100 Reprductn Rat Enzymatic Minimum *
 *STATUS CODES: C 00000.0025 000001.000 000010 Chronic Dog Enzymatic Minimum *
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY
 *FILE INFO: No Tolerance Data Are Used--Without User Modifications.
 ***** AR DATA: No User Modifications*
 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = I
 ***** TO EXPOSURE : FOOD FORM CONTRIBUTION
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL) : (UG/KG BODY WT PER DAY)

POPULATION = U.S. POP.--48 STATES

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	TOLERANCE DATA		AR DATA		DAILY	
		NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	VALUE (PPM)	TYPE (PPM)	REF. (EXCL. AR)	MAXIMUM RESIDUE (EXCL. AR)	ANTICIPATED RESIDUE (INCL. AR)
MENU CATEGORY 13: MISCELLANEOUS FOODS							
07006AA	CHTCORY						0.046273
	21 COOKED-NFS	0.10	1.0000				
43058AA	WINE AND SHERRY	2.38	0.5000				1.697240
	10 RAW-FRESH OR NFS	0.42	0.5000				0.120741
	21 COOKED-NFS						

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 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801 B 00000.0012 000001.200 000100 Reprductn Rat Systemic Minimum
 *STATUS CODES: C 00000.0025 000001.000 000010 Chronic Dog Enzymatic Minimum
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY
 *FILE INFO: No Tolerance Data Are Used--Without User Modifications.
 AR DATA: No User Modifications
 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 11
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)
 POPULATION = INFANTS(<1 YEAR)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	TOLERANCE DATA		AR DATA		DAILY ANTICIPATED RESIDUE		
			VALUE	TYPE	VALUE	REF.	MAXIMUM RESIDUE (EXCL. AR)	DAILY RESIDUE (INCL. AR)	
02005JA	21 COOKED-NFS LIMES-JUICE	0.00	0.2000		0.2000		0.000000	0.000000	
	10 RAW-FRESH OR NFS	0.06	0.2000		0.2000		0.029809	0.000000	
	15 RAW-FRESH OR CANNED	0.00	0.2000		0.2000		0.000000	0.000000	
	31 COOKED-FRESH OR CANNED	0.00	0.2000		0.2000		0.000000	0.000000	
02007AA	TANGELOS	0.00	0.2000		0.2000		0.000000	0.000000	
02008AA	TANGERINES	0.09	0.2000		0.2000		0.444934	0.000000	
02008JA	TANGERINE-JUICE	0.00	0.2000		0.2000		0.000000	0.000000	
10002AA	CANTALOUPE-UNSPECIFIED	0.00	0.5000		0.5000		0.000000	0.000000	
10002AB	CANTALOUPE-PULP	0.05	0.5000		0.5000		5.760759	0.000000	
	10 RAW-FRESH OR NFS	0.00	0.5000		0.5000		0.000000	0.000000	
	21 COOKED-NFS	0.00	0.5000		0.5000		0.000000	0.000000	
10003AA	CASABAS	0.00	0.5000		0.5000		0.000000	0.000000	
10004AA	CRENSHAWMS	0.00	0.5000		0.5000		0.000000	0.000000	
10005AA	HONEYDEW MELONS	0.07	0.5000		0.5000		3.303965	0.000000	
10007AA	PERSION MELONS	0.00	0.5000		0.5000		0.000000	0.000000	
10008AA	WATERMELON	0.10	0.5000		0.5000		2.202643	0.068348	
	10 RAW-FRESH OR NFS	0.13	0.5000		0.5000		0.000000	0.000000	
	21 COOKED-NFS	0.00	0.5000		0.5000		0.000000	0.000000	
MENU CATEGORY 13: MISCELLANEOUS FOODS									
07006AA	CRICORY	0.00	1.0000		1.0000		0.000000	0.000000	
43058AA	WINE AND SHERRY	0.00	0.5000		0.5000		0.000000	0.000000	
	10 RAW-FRESH OR NFS	0.00	0.5000		0.5000		0.000000	0.000000	
	21 COOKED-NFS	0.00	0.5000		0.5000		0.000000	0.000000	
MENU CATEGORY 21: BRASSICA VEGETABLES									
13005AA	BROCCOLI	0.31	1.0000		1.0000		2.168993	5.213910	
	21 COOKED-NFS	0.31	1.0000		1.0000		5.213910	5.110958	
	63 COOKED-FRESH OR FROZEN-BOILED	0.05	1.0000		1.0000		5.110958		

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

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 *CASWELL NO: 1608 CFR NO: CFR180.157 A 00000.0025 000000.500 000010 Chronic Rat Enzymatic Minimum *
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 *STATUS CODES: C 00000.0025 000001.000 000010 Chronic Dog Enzymatic Minimum *
 RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY AR DATA: No User Modifications
 *FILE INFO: No Tolerance Data Are Used--Without User Modifications. MENU PATTERN = II
 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)
 POPULATION = INFANTS(<1 YEAR)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	TOLERANCE DATA		AR DATA		DAILY ANTICIPATED RESIDUE	
			VALUE (PPM)	SORC (PPM) TYPE	VALUE (PPM)	REF. (EXCL. AR)	MAXIMUM RESIDUE (EXCL. AR)	DAILY ANTICIPATED RESIDUE (INCL. AR)
13006AA	BRUSSEL SPROUTS	0.00	1.0000		1.0000	0.000000	0.000000	8.812277
21	COOKED-NFS	0.13	1.0000		1.0000	0.000000	0.000000	0.131372
23	COOKED-FRESH-BOILED	0.06	1.0000		1.0000	0.000000	0.000000	8.411754
13007AA	CABBAGE-GREEN AND RED	0.00	1.0000		1.0000	0.000000	0.000000	1.089728
10	RAW-FRESH OR NFS	0.14	1.0000		1.0000	0.000000	0.000000	9.338757
11	RAW-FRESH-PICKLED, CORNED, OR CURED	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
21	COOKED-NFS	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
13008AA	CAULIFLOWER	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
10	RAW-FRESH OR NFS	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
21	COOKED-NFS	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
13009AA	COLLARDS	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
51	COOKED-CANNED	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
63	COOKED-FRESH OR FROZEN-BOILED	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
13010AA	CABBAGE-CHINESE/CELERY, INC. BOK CHOY	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
10	RAW-FRESH OR NFS	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
21	COOKED-NFS	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
13011AA	KALE	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
63	COOKED-FRESH OR FROZEN-BOILED	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
13021AA	MUSTARD GREENS	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
21	COOKED-NFS	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
63	COOKED-FRESH OR FROZEN-BOILED	0.00	1.0000		1.0000	0.000000	0.000000	0.000000

MENU CATEGORY 22: OTHER VEGETABLES, EXCL. BRASSICA

13002AA	CELERY	0.39	1.0000		1.0000	0.644152	0.644152	1.234744
10	RAW-FRESH OR NFS	1.29	1.0000		1.0000	0.000000	0.000000	0.000000
21	COOKED-NFS	0.00	0.5000		0.5000	0.000000	0.000000	0.000000
13013AA	LETTUCE-LEAFY VARIETIES	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
10	RAW-FRESH OR NFS	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
13016AA	FENNEL	0.00	1.0000		1.0000	0.000000	0.000000	0.000000
00	NOT SPECIFIED (NO CONSUMPTION)	0.00	0.5000		0.5000	0.333030	0.333030	0.009057
13018AA	ARTICHOKES-GLOBE	0.00	1.0000		1.0000	0.000000	0.000000	0.107973
21	COOKED-NFS	0.23	1.0000		1.0000	0.062500	0.062500	0.062500
13020AA	LETTUCE-UNSPECIFIED	0.10	1.0000		1.0000	8.052862	8.052862	0.002721
10	RAW-FRESH OR NFS	1.16	1.0000		1.0000	0.000000	0.000000	0.000000
13022AA	PARSLEY	0.08	1.0000		1.0000	0.000000	0.000000	0.000000
10	RAW-FRESH OR NFS	0.06	1.0000		1.0000	0.000000	0.000000	0.000000
21	COOKED-NFS	0.06	1.0000		1.0000	0.000000	0.000000	0.000000
53	COOKED-CANNED-BOILED	0.06	1.0000		1.0000	0.000000	0.000000	0.000000
13024AA	SPINACH	0.06	1.0000		1.0000	0.000000	0.000000	0.000000
10	RAW-FRESH OR NFS	0.06	1.0000		1.0000	0.000000	0.000000	0.000000
21	COOKED-NFS	0.06	1.0000		1.0000	0.000000	0.000000	0.000000

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION ***** 09:46 Monday, May 16, 1994 9

*NAME: PHOSDRIN (MEVINPHOS) *****
 CASWELL NO: 1608 CFR NO: CFR180.157 STUDY NOEL RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801 B 00000.0025 000000.500 000010 Chronic Rat Systemic Minimum *
 *STATUS CODES: C 00000.0012 000001.200 000100 Reprductn Rat Systemic Minimum *
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY Dog Enzymatic Minimum *
 FILE INFO: No Tolerance Data Are Used--Without User Modifications. AR DATA: No User Modifications
 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 11 : FOOD FORM CONTRIBUTION
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL) : TO EXPOSURE
 (UG/KG BODY WT PER DAY)

POPULATION = INFANTS(<1 YEAR)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	: TOLERANCE DATA		AR DATA		DAILY	
		VALUE	SORC (PPM)	TYPE	REF. (EXCL. AR)	MAXIMUM RESIDUE	ANTICIPATED RESIDUE
13027AA	31 COOKED-FRESH OR CANNED WATERCRESS	1.52			1.0000		8.100433
	10 RAW-FRESH OR NFS	0.00			2.0000		0.000000
	21 COOKED-NFS	0.00			2.0000		0.000000
13045AA	10 RAW-FRESH OR NFS LETTUCE-HEAD VARIETIES	0.00			0.5000		0.000000
	21 COOKED-NFS	0.00			0.5000		0.000000
15009AA	21 COOKED-NFS PEAS(GARDEN)-GREEN IMMATURE	4.40			0.2500		1.158863
	31 COOKED-FRESH OR CANNED	13.18			0.2500		0.589646

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DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

 *NAME: PHOSDRIN (MEVINPHOS) *****
 *CASWELL NO: 1608 CFR NO: CFR180.157 A 00000.0025 000000.500 000010 Chronic Rat Enzymatic Minimum *
 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801 B 00000.0012 000001.200 000100 Reprductn Rat Systemic Minimum *
 *STATUS CODES: C 00000.0025 000001.000 000010 Chronic Dog Enzymatic Minimum *
 RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY AR DATA: No User Modifications
 *FILE INFO: No Tolerance Data Are Used--Without User Modifications.*****

LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = IIII
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER-OIL)

POPULATION = CHILDREN(1-6 YRS)

FOOD CODE FOOD AND FOOD FORM DESCRIPTION

MENU CATEGORY 10: FRUITS

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	TOXICITY DATA VALUE (PPM)	AR DATA VALUE (PPM) REF. (EXCL. AR)	DAILY MAXIMUM ANTICIPATED RESIDUE (EXCL. AR)	DAILY ANTICIPATED RESIDUE (INCL. AR)
01014AA	GRAPES-FRESH	1.22	0.5000	0.5000	0.5000	2.513467
	10 RAW-FRESH OR NFS	0.45	0.5000	0.5000	0.5000	0.490159
	21 COOKED-NFS	11.74	0.5000	0.5000	0.5000	0.277209
01014DA	GRAPES-RAISINS	2.83	0.5000	0.5000	0.5000	4.128586
	10 RAW-FRESH OR NFS	0.27	0.5000	0.5000	0.5000	1.173972
	21 COOKED-NFS	6.42	0.5000	0.5000	0.5000	0.489692
01014JA	GRAPES-JUICE	0.29	0.5000	0.5000	0.5000	7.094112
	10 RAW-FRESH OR NFS	2.81	0.5000	0.5000	0.5000	7.151469
	15 RAW-FRESH OR CANNED	16.11	0.5000	0.5000	0.5000	0.033403
01016AA	STRAWBERRIES	1.24	1.0000	1.0000	1.0000	3.052117
	10 RAW-FRESH OR NFS	16.14	1.0000	1.0000	1.0000	0.065536
	21 COOKED-NFS	0.75	1.0000	1.0000	1.0000	1.736412
02001AA	CITRUS CITRON	0.03	0.2000	0.2000	0.2000	0.099517
	22 COOKED-FRESH-BAKED	0.00	0.2000	0.2000	0.2000	0.000000
02003AA	KUMQUATS	0.31	0.2000	0.2000	0.2000	0.238877
	10 RAW-FRESH OR NFS	0.28	0.2000	0.2000	0.2000	0.019005
	22 COOKED-FRESH-BAKED	0.00	0.2000	0.2000	0.2000	0.000000
02004AB	LEMONS-PULP	0.09	0.2000	0.2000	0.2000	0.034431
	10 RAW-FRESH OR NFS	0.04	0.2000	0.2000	0.2000	0.007988
	31 COOKED-FRESH OR CANNED	0.79	0.2000	0.2000	0.2000	0.000665
02004HA	LEMONS-PEEL	3.56	0.2000	0.2000	0.2000	0.046154
	10 RAW-FRESH OR NFS	0.19	0.2000	0.2000	0.2000	0.379173
	21 COOKED-NFS	6.26	0.2000	0.2000	0.2000	0.048563
02004JA	LEMONS-JUICE	2.18	0.2000	0.2000	0.2000	0.211228
	10 RAW-FRESH OR NFS	0.00	0.2000	0.2000	0.2000	0.000000
	15 RAW-FRESH OR CANNED	0.00	0.2000	0.2000	0.2000	0.000000
	21 COOKED-NFS	0.00	0.2000	0.2000	0.2000	0.000000
02005AA	LIMES-UNSPECIFIED (NO CONSUMPTION)	0.00	0.2000	0.2000	0.2000	0.000000
	31 COOKED-FRESH OR CANNED	0.00	0.2000	0.2000	0.2000	0.000000
02005AB	LIMES-PULP	0.00	0.2000	0.2000	0.2000	0.000000
	10 RAW-FRESH OR NFS	0.00	0.2000	0.2000	0.2000	0.000000
02005HA	LIMES-PEEL	0.00	0.2000	0.2000	0.2000	0.000000

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

 *NAME: PHOSDRIN (NEVINPHOS) *****
 *CASWELL NO: 1608 CFR NO: CFR180.157 STUDY NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO. *
 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801 B 00000.0012 000001.200 000100 Reprductn Rat Enzymatic Minimum *
 *STATUS CODES: C 00000.0025 000001.000 000010 Chronic Dog Systemic Minimum *
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY
 *FILE INFO: No Tolerance Data Are Used--Without User Modifications.
 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = III
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)
 POPULATION = CHILDREN(1-6 YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	: NUMBER OF CONSUMER : DAYS AS PERCENT OF : POTENTIAL PERSON DAYS	: TOLERANCE DATA		: AR DATA		: DAILY	
			VALUE	SORC (PPM) TYPE	VALUE (PPM) REF.	MAXIMUM RESIDUE (EXCL. AR)	ANTICIPATED RESIDUE (INCL. AR)	
02005JA	21 COOKED-NFS LIMES-JUICE	0.00			0.2000		0.000000	
	10 RAW-FRESH OR NFS	0.10			0.2000		0.018512	
	15 RAW-FRESH OR CANNED	0.02			0.2000		5.654131	
	31 COOKED-FRESH OR CANNED	0.02			0.2000		0.279844	
02007AA	TANGELOS							
	10 RAW-FRESH OR NFS	0.12			0.2000		1.268798	
02008AA	TANGERINES							
	10 RAW-FRESH OR NFS	0.55			0.2000		0.849011	
02008JA	TANGERINE-JUICE							
	15 RAW-FRESH OR CANNED	0.00			0.2000		0.000000	
10002AA	CANTALOUPE-UNSPECIFIED							
	00 NOT SPECIFIED (NO CONSUMPTION)	0.00			0.5000		0.000000	
10002AB	CANTALOUPE-PULP							
	10 RAW-FRESH OR NFS	0.60			0.5000		3.275787	
	21 COOKED-NFS	0.00			0.5000		0.000000	
10003AA	CASABAS							
	10 RAW-FRESH OR NFS	0.00			0.5000		0.000000	
10004AA	CRENSHAW							
	00 NOT SPECIFIED (NO CONSUMPTION)	0.00			0.5000		0.000000	
10005AA	HONEYDEW MELONS							
	10 RAW-FRESH OR NFS	0.28			0.5000		6.093699	
10007AA	PERSTON MELONS							
	00 NOT SPECIFIED (NO CONSUMPTION)	0.00			0.5000		0.000000	
10008AA	WATERMELON							
	10 RAW-FRESH OR NFS	1.13			0.5000		6.432811	
	21 COOKED-NFS	0.13			0.5000		0.079486	

MENU CATEGORY 13: MISCELLANEOUS FOODS

07006AA	CHICORY							
	21 COOKED-NFS	0.02			1.0000		0.141010	
43058AA	WINE AND SHERRY							
	10 RAW-FRESH OR NFS	0.08			0.5000		2.850780	
	21 COOKED-NFS	0.08			0.5000		0.023301	

MENU CATEGORY 21: BRASSICA VEGETABLES

13005AA	BROCCOLI							
	21 COOKED-NFS	0.29			1.0000		1.520178	
	31 COOKED-FRESH OR CANNED	1.47			1.0000		3.751383	
	63 COOKED-FRESH OR FROZEN-BOILED	0.21			1.0000		3.829410	

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

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 *NAME: PHOSDRIN (MEVINPHOS)
 *CASHELL NO: 1608 CFR NO: CFR180.157 A 00000.0025 000000.500 000010 Chronic
 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801 B 00000.0012 000001.200 000100 Reprductn
 *STATUS CODES: C 00000.0025 000001.000 000010 Chronic
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY
 *FILE INFO: No Tolerance Data Are Used--Without User Modifications.
 *LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = III
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = CHILDREN(1-6 YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	TOLERANCE DATA		AR DATA		DAILY ANTICIPATED RESIDUE	
			VALUE	SORC (PPM) TYPE	VALUE	REF.	(EXCL. AR)	(INCL. AR)
13006AA	BRUSSEL SPROUTS	0.05	1.0000		1.0000		1.917500	
21	COOKED-NFS	0.13	1.0000		1.0000		3.908927	
13007AA	CABBAGE-FRESH-BOILED	1.92	1.0000		1.0000		1.820640	
10	RAW-FRESH OR NFS	0.26	1.0000		1.0000		2.377112	
11	RAW-FRESH-PICKLED, CORNED, OR CURED	1.33	1.0000		1.0000		4.488728	
21	COOKED-NFS	0.07	1.0000		1.0000		2.982591	
13008AA	CAULIFLOWER	0.50	1.0000		1.0000		3.124117	
10	RAW-FRESH OR NFS	0.00	1.0000		1.0000		0.000000	
21	COOKED-NFS	0.56	1.0000		1.0000		5.508096	
13009AA	COLLARDS	0.04	1.0000		1.0000		1.522350	
51	COOKED-CANNED	0.17	1.0000		1.0000		7.213245	
63	COOKED-FRESH OR FROZEN-BOILED	0.03	1.0000		1.0000		3.006677	
13010AA	CABBAGE-CHINESE/CELERY, INC. BOK CHOY	0.02	1.0000		1.0000		0.626798	
10	RAW-FRESH OR NFS	0.49	1.0000		1.0000		3.980095	
21	COOKED-NFS							
13011AA	KALE							
63	COOKED-FRESH OR FROZEN-BOILED							
13021AA	MUSTARD GREENS							
21	COOKED-NFS							
63	COOKED-FRESH OR FROZEN-BOILED							

MENU CATEGORY 22: OTHER VEGETABLES, EXCL. BRASSICA

13002AA	CELERY	11.82	1.0000		1.0000		0.488585	
10	RAW-FRESH OR NFS	4.57	1.0000		1.0000		0.444780	
21	COOKED-NFS	0.47	0.5000		0.5000		0.305911	
13013AA	LETTUCE-LEAFY VARIETIES	0.00	1.0000		1.0000		0.000000	
10	RAW-FRESH OR NFS	0.06	1.0000		1.0000		5.621815	
13016AA	FENNEL	2.59	0.5000		0.5000		0.259758	
00	NOT SPECIFIED (NO CONSUMPTION)	2.19	1.0000		1.0000		0.082804	
21	COOKED-NFS	6.85	1.0000		1.0000		0.089704	
13020AA	LETTUCE-UNSPECIFIED	0.87	1.0000		1.0000		0.068232	
10	RAW-FRESH OR NFS	0.33	1.0000		1.0000		3.064783	
13022AA	PARSLEY	1.71	1.0000		1.0000		0.471360	
10	RAW-FRESH OR NFS							
21	COOKED-NFS							
53	COOKED-CANNED-BOILED							
13024AA	SPINACH							
10	RAW-FRESH OR NFS							
21	COOKED-NFS							

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DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

 *NAME: PHOSDRIN (NEVINPHOS) *****
 *CASWELL NO: 160B CFR NO: CFR180.157 A 00000.0025 000000.500 000010 Chronic SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO. *
 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801 B 00000.0012 000001.200 000100 Reprductn Rat Systemic Minimum *
 *STATUS CODES: C 00000.0025 000001.000 000010 Chronic Dog Enzymatic Minimum *
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY Enzymatic Minimum *
 FILE INFO: No Tolerance Data Are Used--Without User Modifications. AR DATA: No User Modifications

LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = III
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = CHILDREN(1-6 YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	: TOLERANCE DATA		: AR DATA		: DAILY	
		VALUE	TYPE	VALUE	REF.	MAXIMUM RESIDUE (EXCL. AR)	ANTICIPATED RESIDUE (INCL. AR)
13027AA	31 COOKED-FRESH OR CANNED WATERCRESS	0.88		1.0000		3.956718	
	10 RAW-FRESH OR NFS	0.00		2.0000		0.000000	
	21 COOKED-NFS	0.00		2.0000		0.000000	
13045AA	21 LETTUCE-HEAD VARIETIES	13.23		0.5000		0.583761	
	10 RAW-FRESH OR NFS	3.58		0.5000		0.096781	
	21 COOKED-NFS						
15009AA	21 PEAS(GARDEN)-GREEN IMMATURE	12.58		0.2500		0.670443	
	21 COOKED-NFS	5.92		0.2500		0.167567	
	31 COOKED-FRESH OR CANNED						

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION
 ***** 09:46 Monday, May 16, 1994 14 *****
 *NAME: PHOSDRIN (MEVINPHOS) *****
 CASHELL NO: 1608 CFR NO: CFR180-157 STUDY A 00000.0025 000000.500 000010 Chronic EFF. LEV. CORE GRADE DOC. NO.
 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801 B 00000.0012 000001.200 000100 Reproductn Rat Enzymatic Minimum *
 *STATUS CODES: C 00000.0025 000001.000 000010 Chronic Rat Systemic Minimum *
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY Dog Enzymatic Minimum *
 FILE INFO: No Tolerance Data Are Used--Without User Modifications. AR DATA: No User Modifications
 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = I : FOOD FORM CONTRIBUTION
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL) : TO EXPOSURE
 POPULATION = FEMALES(13+ YRS) : (UG/KG BODY WT PER DAY)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	TOLERANCE DATA		AR DATA		DAILY ANTICIPATED RESIDUE	
			VALUE	SORC (PPM)	VALUE	TYPE	MAXIMUM RESIDUE (EXCL. AR)	DAILY ANTICIPATED RESIDUE (INCL. AR)
MENU CATEGORY 9: OTHER VEGETABLES, INCL. BRASSICA								
13002AA	CELERY	22.60	1.0000			1.0000		0.221301
	10 RAW-FRESH OR NFS	5.07	1.0000			1.0000		0.230955
	21 COOKED-NFS							
13005AA	BROCCOLI	0.49	1.0000			1.0000		0.889027
	21 COOKED-NFS	2.34	1.0000			1.0000		1.840276
	31 COOKED-FRESH OR CANNED	0.27	1.0000			1.0000		2.065182
	63 COOKED-FRESH OR FROZEN-BOILED							
13006AA	BRUSSEL SPROUTS	0.08	1.0000			1.0000		1.654202
	21 COOKED-NFS	0.37	1.0000			1.0000		1.654359
	23 COOKED-FRESH-BOILED							
13007AA	CABBAGE-GREEN AND RED	4.47	1.0000			1.0000		0.867836
	10 RAW-FRESH OR NFS	0.92	1.0000			1.0000		1.425083
	11 RAW-FRESH-PICKLED, CORNED, OR CURED	2.18	1.0000			1.0000		2.023596
	21 COOKED-NFS							
13008AA	CAULIFLOWER	0.09	1.0000			1.0000		1.142589
	10 RAW-FRESH OR NFS	1.15	1.0000			1.0000		1.532000
	21 COOKED-NFS							
13009AA	COLLARDS	0.01	1.0000			1.0000		2.302166
	51 COOKED-CANNED	0.57	1.0000			1.0000		2.387245
	63 COOKED-FRESH OR FROZEN-BOILED							
13010AA	CABBAGE-CHINESE/CELERY, INC. BOK CHOY	0.01	1.0000			1.0000		1.030381
	10 RAW-FRESH OR NFS	0.38	1.0000			1.0000		1.024698
	21 COOKED-NFS							
13011AA	KALE	0.09	1.0000			1.0000		2.127911
	63 COOKED-FRESH OR FROZEN-BOILED							
13013AA	LETTUCE-LEAFY VARIETIES	1.30	0.5000			0.5000		0.210629
	10 RAW-FRESH OR NFS							
13016AA	FENNEL	0.00	1.0000			1.0000		0.000000
	00 NOT SPECIFIED (NO CONSUMPTION)							
13018AA	ARTICHOKES-GLOBE	0.18	1.0000			1.0000		2.154182
	21 COOKED-NFS							
13020AA	LETTUCE-UNSPECIFIED	3.96	0.5000			0.5000		0.121307
	10 RAW-FRESH OR NFS	0.10	1.0000			1.0000		0.261870
	21 COOKED-NFS	0.62	1.0000			1.0000		2.365985
	63 COOKED-FRESH OR FROZEN-BOILED							
13022AA	PARSLEY	3.20	1.0000			1.0000		0.033830
	10 RAW-FRESH OR NFS	3.92	1.0000			1.0000		0.036536
	21 COOKED-NFS							

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

*NAME: PHOSDRIN (MEVINPHOS) *RDV NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.*
 *CASHELL NO: 1608 CFR NO: CFR180.157 A 00000.0025 000000.500 000010 Chronic Rat Enzymatic Minimum *
 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801 B 00000.0012 000001.200 000100 Reproductn Rat Systemic Minimum *
 *STATUS CODES: C 00000.0025 000001.000 000010 Chronic Dog Enzymatic Minimum *
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY
 *FILE INFO: No Tolerance Data Are Used--Without User Modifications.
 AR DATA: No User Modifications*
 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 1
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = FEMALES(13+ YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	TOLERANCE DATA		AR DATA		DAILY MAXIMUM ANTICIPATED RESIDUE (EXCL. AR)		DAILY TO EXPOSURE (UG/KG BODY WT PER DAY)
			VALUE	SORC (PPM) TYPE	VALUE (PPM) REF.	(EXCL. AR)	RESIDUE	(INCL. AR)	
13024AA	53 COOKED-CANNED-BOILED SPINACH	0.68			1.0000				0.025040
	10 RAW-FRESH OR NFS	0.47			1.0000				1.365004
	21 COOKED-NFS	1.92			1.0000				0.349364
	31 COOKED-FRESH OR CANNED WATERCRESS	1.24			1.0000				2.016052
13027AA	10 RAW-FRESH OR NFS	0.06			2.0000				1.135906
	21 COOKED-NFS	0.00			2.0000				2.287359
13045AA	10 RAW-FRESH OR NFS	32.45			0.5000				0.366569
	21 COOKED-NFS	2.84			0.5000				0.049349
15009AA	10 RAW-FRESH OR NFS	10.94			0.2500				0.267706
	21 COOKED-NFS	4.57			0.2500				0.056577

MENU CATEGORY 10: FRUITS

01014AA	10 RAW-FRESH OR NFS	1.31			0.5000				0.757180
	21 COOKED-NFS	0.31			0.5000				0.083311
	31 COOKED-FRESH OR CANNED	5.02			0.5000				0.100081
01014DA	10 RAW-FRESH OR NFS	1.08			0.5000				1.085629
	21 COOKED-NFS	0.36			0.5000				0.523451
	22 COOKED-FRESH-BAKED	4.99			0.5000				0.178286
01014JA	10 RAW-FRESH OR NFS	0.10			0.5000				2.586929
	15 RAW-FRESH OR CANNED	1.09			0.5000				2.427560
	21 COOKED-NFS	10.41			0.5000				0.011361
01016AA	10 RAW-FRESH OR NFS	2.04			1.0000				1.079451
	21 COOKED-NFS	10.57			1.0000				0.039575
	70 RAW-FROZEN	0.88			1.0000				0.533802
02001AA	10 RAW-FRESH OR NFS	0.21			0.2000				0.015219
	22 COOKED-FRESH-BAKED	0.00			0.2000				0.128362
02003AA	10 RAW-FRESH OR NFS	0.82			0.2000				0.053159
	22 COOKED-FRESH-BAKED	0.20			0.2000				0.005428
02004AA	10 RAW-FRESH OR NFS	0.05			0.2000				0.096325
	22 COOKED-FRESH-BAKED								
02004AB	10 RAW-FRESH OR NFS								

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DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

 *NAME: PHOSDRIN (HEVINPHOS) *****
 CASWELL NO: 160B CFR NO: CFR180.157 A 00000.0025 000000.500 000010 Chronic Rat Enzymatic Minimum DOC. NO.
 *CAS NO: 07786-34-7 SHAGHNESSY NO: 015801 B 00000.0012 000001.200 000100 Reprductn Rat Systemic Minimum *
 *STATUS CODES: C 00000.0025 000001.000 000010 Chronic Dog Enzymatic Minimum *
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY
 *FILE INFO: No Tolerance Data Are Used--Without User Modifications.
 AR DATA: No User Modifications
 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = I
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = FEMALES(13+ YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	TOLERANCE DATA		AR DATA		DAILY ANTICIPATED RESIDUE (EXCL. AR)		DAILY ANTICIPATED RESIDUE (INCL. AR)
			VALUE	TYPE	VALUE	REF.	MAXIMUM RESIDUE	MINIMUM	
02004HA	31 COOKED-FRESH OR CANNED LEMONS-PEEL	0.34	0.2000		0.2000		0.032824	0.000496	0.005021
02004JA	10 RAW-FRESH OR NFS LEMONS-JUICE	5.51	0.2000		0.2000		0.038505	0.183897	0.078536
02005AA	15 RAW-FRESH OR CANNED LEMONS-JUICE	0.95	0.2000		0.2000		0.038505	0.183897	0.078536
02005AB	21 COOKED-FRESH OR CANNED LEMONS-JUICE	14.21	0.2000		0.2000		0.038505	0.183897	0.078536
02005HA	00 NOT SPECIFIED (NO CONSUMPTION) LIMES-PULP	0.00	0.2000		0.2000		0.000000	0.000000	0.000000
02005JA	10 RAW-FRESH OR NFS LIMES-PEEL	0.03	0.2000		0.2000		0.102923	0.000283	0.102923
02007AA	21 COOKED-FRESH OR CANNED TANGELOS	0.00	0.2000		0.2000		0.000283	0.000283	0.000283
02008AA	10 RAW-FRESH OR NFS TANGERINE-JUICE	0.31	0.2000		0.2000		0.375681	0.297312	0.375681
02008JA	15 RAW-FRESH OR CANNED TANGERINE-JUICE	0.07	0.2000		0.2000		0.297312	0.067359	0.297312
10002AA	31 COOKED-FRESH OR CANNED CANTALOUPE-UNSPECIFIED	0.05	0.2000		0.2000		0.360268	0.268510	0.360268
10002AB	00 NOT SPECIFIED (NO CONSUMPTION) CANTALOUPE-PULP	0.12	0.2000		0.2000		0.268510	0.469187	0.268510
10003AA	10 RAW-FRESH OR NFS CASABAS	0.50	0.2000		0.2000		0.469187	0.000000	0.469187
10004AA	10 RAW-FRESH OR NFS CRENSHAW	0.01	0.2000		0.2000		0.000000	0.000000	0.000000
10005AA	15 RAW-FRESH OR CANNED HONEYDEW MELONS	0.00	0.5000		0.5000		1.448768	1.605294	1.448768
10007AA	00 NOT SPECIFIED (NO CONSUMPTION) PERSION MELONS	1.86	0.5000		0.5000		1.605294	2.052578	1.605294
10008AA	00 NOT SPECIFIED (NO CONSUMPTION) WATERMELON	0.02	0.5000		0.5000		2.052578	0.000000	2.052578
	21 COOKED-FRESH OR NFS WATERMELON	0.04	0.5000		0.5000		0.000000	0.000000	0.000000
	10 RAW-FRESH OR NFS WATERMELON	0.00	0.5000		0.5000		0.000000	2.239603	0.000000
	21 COOKED-FRESH OR NFS WATERMELON	0.44	0.5000		0.5000		2.239603	0.000000	2.239603
	10 RAW-FRESH OR NFS WATERMELON	0.00	0.5000		0.5000		0.000000	0.000000	0.000000
	21 COOKED-FRESH OR NFS WATERMELON	1.14	0.5000		0.5000		2.763064	0.033174	2.763064
	21 COOKED-FRESH OR NFS WATERMELON	0.09	0.5000		0.5000		0.033174	0.000000	0.033174

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DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION
 *NAME: PHOSDRIN (HEVIMPHOS)
 *CASHWELL NO: 160B CFR NO: CFR180.157
 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801
 *STATUS CODES:
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG. of BODY WEIGHT/DAY
 *FILE INFO: No Tolerance Data Are Used--Without User Modifications.
 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = I
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = FEMALES(13+ YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	NOEL	RDV	STUDY	SF	STUDY TYPE	SPECIES	EFF. LEV. Enzymatic	CORE GRADE Minimum	DOC. NO. *
07006AA	CHICORY	0.12	00000.0025	00000.500	000010	Chronic	Rat	Enzymatic	Minimum		
43058AA	21 COOKED-NFS WINE AND SHERRY	3.08	00000.0012	000001.200	000100	Reproductn	Rat	Enzymatic	Minimum		
	10 RAW-FRESH OR NFS	0.43	00000.0025	000001.000	000010	Chronic	Dog	Enzymatic	Minimum		
	21 COOKED-NFS										

AR DATA: No User Modifications*
 TO EXPOSURE : (UG/KG BODY WT PER DAY)
 FOOD FORM CONTRIBUTION :
 DAILY MAXIMUM ANTICIPATED RESIDUE : (EXCL. AR) (INCL. AR)

AR DATA :
 TOLERANCE DATA :
 VALUE :
 (PPM) TYPE :
 (PPM) REF. :
 VALUE :
 (PPM) REF. :

AR DATA :
 TOLERANCE DATA :
 VALUE :
 (PPM) TYPE :
 (PPM) REF. :
 VALUE :
 (PPM) REF. :

AR DATA :
 TOLERANCE DATA :
 VALUE :
 (PPM) TYPE :
 (PPM) REF. :
 VALUE :
 (PPM) REF. :

AR DATA :
 TOLERANCE DATA :
 VALUE :
 (PPM) TYPE :
 (PPM) REF. :
 VALUE :
 (PPM) REF. :

AR DATA :
 TOLERANCE DATA :
 VALUE :
 (PPM) TYPE :
 (PPM) REF. :
 VALUE :
 (PPM) REF. :

AR DATA :
 TOLERANCE DATA :
 VALUE :
 (PPM) TYPE :
 (PPM) REF. :
 VALUE :
 (PPM) REF. :

AR DATA :
 TOLERANCE DATA :
 VALUE :
 (PPM) TYPE :
 (PPM) REF. :
 VALUE :
 (PPM) REF. :

AR DATA :
 TOLERANCE DATA :
 VALUE :
 (PPM) TYPE :
 (PPM) REF. :
 VALUE :
 (PPM) REF. :

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

 *NAME: PHOSDRIN (MEVINPHOS) ***** 09:46 Monday, May 16, 1994 19 *****
 CASHELL NO: 160B CFR NO: CFR180.157 STUDY NOEL RDV SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801 B 00000.0025 000000.500 000010 Chronic Rat Enzymatic Minimum *
 *STATUS CODES: C 00000.0012 000001.200 000100 Reproductn Rat Systemic Minimum *
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY Dog Enzymatic Minimum *
 *FILE INFO: No Tolerance Data Are Used--Without User Modifications.
 AR DATA: No User Modifications*
 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = 1
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL)

POPULATION = MALES(13+ YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	TOLERANCE DATA		AR DATA		DAILY ANTICIPATED RESIDUE	
			VALUE (PPM)	TYPE	VALUE (PPM)	REF.	MAXIMUM RESIDUE (EXCL. AR)	DAILY ANTICIPATED RESIDUE (INCL. AR)
13024AA	53 COOKED-CANNED-BOILED SPINACH	0.69	1.0000		1.0000		0.024566	
	10 RAW-FRESH OR NFS	0.50	1.0000		1.0000		1.565727	
	21 COOKED-NFS	2.15	1.0000		1.0000		0.246619	
	31 COOKED-FRESH OR CANNED	1.34	1.0000		1.0000		1.815430	
13027AA	WATERCRESS							
	10 RAW-FRESH OR NFS	0.02	2.0000		2.0000		1.520425	
	21 COOKED-NFS	0.04	2.0000		2.0000		4.825035	
13045AA	LETTUCE-HEAD VARIETIES							
	10 RAW-FRESH OR NFS	32.16	0.5000		0.5000		0.293446	
	21 COOKED-NFS	3.57	0.5000		0.5000		0.052204	
15009AA	PEAS(GARDEN)-GREEN IMMATURE							
	21 COOKED-NFS	11.65	0.2500		0.2500		0.272017	
	31 COOKED-FRESH OR CANNED	4.55	0.2500		0.2500		0.055250	
MENU CATEGORY 10: FRUITS								
01014AA	GRAPES-FRESH							
	10 RAW-FRESH OR NFS	1.09	0.5000		0.5000		0.667734	
	21 COOKED-NFS	0.33	0.5000		0.5000		0.056885	
	31 COOKED-FRESH OR CANNED	5.40	0.5000		0.5000		0.098374	
01014DA	GRAPES-RAISINS							
	10 RAW-FRESH OR NFS	0.93	0.5000		0.5000		0.927665	
	21 COOKED-NFS	0.51	0.5000		0.5000		0.439297	
	22 COOKED-FRESH-BAKED	5.71	0.5000		0.5000		0.184301	
01014JA	GRAPES-JUICE							
	10 RAW-FRESH OR NFS	0.05	0.5000		0.5000		2.701189	
	15 RAW-FRESH OR CANNED	0.84	0.5000		0.5000		2.280491	
	21 COOKED-NFS	12.43	0.5000		0.5000		0.012467	
01016AA	STRAWBERRIES							
	10 RAW-FRESH OR NFS	2.47	1.0000		1.0000		0.877489	
	21 COOKED-NFS	12.56	1.0000		1.0000		0.034784	
	70 RAW-FROZEN	0.78	1.0000		1.0000		0.620340	
02001AA	CITRUS CITRON							
	22 COOKED-FRESH-BAKED	0.30	0.2000		0.2000		0.011695	
02003AA	KUMQUATS							
	10 RAW-FRESH OR NFS	0.00	0.2000		0.2000		0.218543	
02004AA	LEMONS-UNSPECIFIED							
	10 RAW-FRESH OR NFS	0.68	0.2000		0.2000		0.039565	
	22 COOKED-FRESH-BAKED	0.20	0.2000		0.2000		0.005006	
02004AB	LEMONS-PULP							
	10 RAW-FRESH OR NFS	0.01	0.2000		0.2000		0.076298	

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION ***** 09:46 Monday, May 16, 1994 20 *****

*NAME: PHOSDRIN (MEVINPHOS) ***** EFF. LEV. CORE GRADE DOC. NO. *
 *CASHWELL NO: 160B CFR NO: CFR180.157 STUDY NOEL RDV SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO. *
 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801 B 00000.0025 000000.500 000010 Chronic Rat Systemic Minimum *
 *STATUS CODES: C 00000.0012 000001.200 000100 Reprductn Rat Systemic Minimum *
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY Dog Enzymatic Minimum *
 FILE INFO: No Tolerance Data Are Used--Without User Modifications. AR DATA: No User Modifications
 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = I : FOOD FORM CONTRIBUTION
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL) : TO EXPOSURE
 : (UG/KG BODY WT PER DAY)

POPULATION = MALES(13+ YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	TOLERANCE DATA		AR DATA		DAILY MAXIMUM ANTICIPATED RESIDUE	
			VALUE	:SORC (PPM) TYPE	VALUE (PPM) REF.	(EXCL. AR)	(EXCL. AR)	(INCL. AR)
02004HA	31 COOKED-FRESH OR CANNED LEMONS-PEEL	0.46			0.2000			0.004580
	10 RAW-FRESH OR NFS	0.14			0.2000			0.025445
	21 COOKED-NFS	1.06			0.2000			0.000395
02004JA	10 RAW-FRESH OR NFS LEMONS-JUICE	4.53			0.2000			0.025758
	15 RAW-FRESH OR CANNED	0.61			0.2000			0.100782
	21 COOKED-NFS	12.82			0.2000			0.017544
	31 COOKED-FRESH OR CANNED LIMES-UNSPECIFIED	2.38			0.2000			0.078465
02005AA	00 NOT SPECIFIED (NO CONSUMPTION) LIMES-UNSPECIFIED	0.00			0.2000			0.000000
02005AB	10 RAW-FRESH OR NFS LIMES-PULP	0.04			0.2000			0.058211
02005HA	21 COOKED-NFS LIMES-PEEL	0.00			0.2000			0.000264
02005JA	10 RAW-FRESH OR NFS LIMES-JUICE	0.20			0.2000			0.615078
	15 RAW-FRESH OR CANNED	0.02			0.2000			0.616124
	31 COOKED-FRESH OR CANNED TANGELOS	0.04			0.2000			0.066909
02007AA	10 RAW-FRESH OR NFS TANGERINES	0.06			0.2000			0.328989
02008AA	10 RAW-FRESH OR NFS TANGERINE-JUICE	0.47			0.2000			0.216281
02008JA	15 RAW-FRESH OR CANNED CANTALOUPE-UNSPECIFIED	0.01			0.2000			1.076148
10002AA	00 NOT SPECIFIED (NO CONSUMPTION) CANTALOUPE-PULP	0.00			0.5000			0.000000
10002AB	10 RAW-FRESH OR NFS CANTALOUPE-UNSPECIFIED	1.40			0.5000			1.310013
	21 COOKED-NFS	0.00			0.5000			0.000000
10003AA	10 RAW-FRESH OR NFS CASABAS	0.02			0.5000			0.906016
10004AA	00 NOT SPECIFIED (NO CONSUMPTION) CRENSHAW	0.00			0.5000			0.000000
10005AA	10 RAW-FRESH OR NFS HONEYDEW MELONS	0.40			0.5000			1.950672
10007AA	00 NOT SPECIFIED (NO CONSUMPTION) PERSION MELONS	0.00			0.5000			0.000000
10008AA	10 RAW-FRESH OR NFS WATERMELON	0.94			0.5000			3.142095
	21 COOKED-NFS	0.08			0.5000			0.044561

DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION

 *NAME: PHOSDRIN (MEVINPHOS) ***** 09:46 Monday, May 16, 1994 21
 CASWELL NO: 1608 CFR NO: CFR180.157 STUDY NOEL SF STUDY TYPE SPECIES EFF. LEV. CORE GRADE DOC. NO.
 *CAS NO: 07786-34-7 SHAUGHNESSY NO: 015801 B 00000.0025 000000.500 000010 Chronic Rat Enzymatic Minimum *
 *STATUS CODES: 00000.0012 000001.200 000100 Reprductn Rat Systemic Minimum *
 *RDV INFO: The LD value used in this analysis is 0.0125 MG/KG of BODY WEIGHT/DAY Dog Enzymatic Minimum *
 *FILE INFO: No Tolerance Data Are Used--Without User Modifications.

 LISTING OF RELEVANT FOODS & FOOD FORMS, ORDERED BY MENU CATEGORY. MENU PATTERN = I AR DATA: No User Modifications*
 CHEMICAL IS ASSUMED TO BE UNIFORMLY DISTRIBUTED (WATER:OIL) ***** TO EXPOSURE *****
 : FOOD FORM CONTRIBUTION :
 : (UG/KG BODY WT PER DAY) :

POPULATION = MALES(13+ YRS)

FOOD CODE	FOOD AND FOOD FORM DESCRIPTION	TOLERANCE DATA		AR DATA		DAILY	
		NUMBER OF CONSUMER DAYS AS PERCENT OF POTENTIAL PERSON DAYS	VALUE	TYPE	VALUE	RESIDUE	ANTICIPATED RESIDUE
MENU CATEGORY 13: MISCELLANEOUS FOODS							
07006AA	CHTCORY						
21	COOKED-NFS	0.13			1.0000		0.038331
43058AA	WINE AND SHERRY						
10	RAW-FRESH OR NFS	2.96			0.5000		1.644201
21	COOKED-NFS	0.63			0.5000		0.117234

TOLERANCE SOURCES: P=PUBLISHED, A=APPROVED, N=NEW ACTION, U=USER-SUPPLIED

Table 1B Chronic Dietary Risk Assessment for Mevinphos and Employed Residues

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Mevinphos (Phosdrin) Caswell #1608 CAS No. 7786-34-7 A.I. CODE: 015801 CFR No. 180.157 185.4200	2yr feeding - dog NOEL = 0.0250 mg/kg 0.00 ppm LEL = 0.0000 mg/kg 0.00 ppm OMCO:	Plasma and RBC CHE inhibition.	UF -->100 OPP RfD = 0.000250 EPA RfD = 0.000000	Critical study and data gaps not reviewed by HED RfD/PR Committee. RfD will be evaluated in 1988 Reg. Std.	WHO last reviewed 1972 HED deferred 05/05/87 Ad hoc meeting 07/25/89

POPULATION SUBGROUP	TOTAL THRC (HG/KG BODY WEIGHT/DAY)	NEW THRC**	NEW THRC AS PERCENT OF RfD	DIFFERENCE AS PERCENT OF RfD	EFFECT OF ANTICIPATED RESIDUES ARC	%RFD
U.S. POPULATION - 48 STATES	0.000744	0.000744	297.718800	0.000000	0.000093	37.25920
U.S. POPULATION - SPRING SEASON	0.000793	0.000793	317.111600	0.000000	0.000102	40.64040
U.S. POPULATION - SUMMER SEASON	0.000808	0.000808	323.237600	0.000000	0.000097	38.68280
U.S. POPULATION - FALL SEASON	0.000687	0.000687	276.682800	0.000000	0.000084	33.56080
U.S. POPULATION - WINTER SEASON	0.000689	0.000689	275.482800	0.000000	0.000089	35.79080
NORTHEAST REGION	0.000781	0.000781	312.318800	0.000000	0.000101	40.26560
NORTH CENTRAL REGION	0.000671	0.000671	266.219600	0.000000	0.000090	36.10240
SOUTHERN REGION	0.000693	0.000693	277.136400	0.000000	0.000070	28.15800
WESTERN REGION	0.000891	0.000891	356.538400	0.000000	0.000126	50.21920
HISPANICS	0.000539	0.000539	215.696800	0.000000	0.000099	39.72400
NON-HISPANIC WHITES	0.000736	0.000736	296.548400	0.000000	0.000098	39.39600
NON-HISPANIC BLACKS	0.000848	0.000848	339.395600	0.000000	0.000053	21.05800
NON-HISPANIC OTHERS	0.001116	0.001116	446.225600	0.000000	0.000105	41.93840
NURSING INFANTS (< 1 YEAR OLD)	0.000161	0.000161	64.412400	0.000000	0.000003	1.05840
NON-NURSING INFANTS (< 1 YEAR OLD)	0.000611	0.000611	244.579600	0.000000	0.000023	9.01280
FEMALES (13+ YEARS, PREGNANT)	0.000622	0.000622	248.916800	0.000000	0.000086	34.52160
FEMALES 13+ YEARS, NURSING	0.000860	0.000860	343.890400	0.000000	0.000115	45.99200
CHILDREN (1-6 YEARS OLD)	0.001218	0.001218	487.059200	0.000000	0.000088	35.09760
CHILDREN (7-12 YEARS OLD)	0.000909	0.000909	363.482000	0.000000	0.000100	39.97840
MALES (13-19 YEARS OLD)	0.000559	0.000559	223.634000	0.000000	0.000074	29.66120
MALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.000567	0.000567	226.720800	0.000000	0.000081	32.42440
FEMALES (20 YEARS AND OLDER)	0.000631	0.000631	252.478000	0.000000	0.000085	34.12600
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.000735	0.000735	296.139200	0.000000	0.000106	42.47280

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

CHEMICAL

STUDY TYPE

EFFECTS

REFERENCE DOSES

DATA GAPS/COMMENTS

STATUS

Mevinphos (Phosdr in) Caswell #1608 CAS No. 7786-34-7 A.I. CODE: 015801 CFR No. 180.157 185.4200	2yr feeding- dog NOEL= 0.0250 mg/kg 0.00 ppm LEL= 0.0000 mg/kg 0.00 ppm ONCO:	Plasma and RBC CHE inhibition.	OPP RfD= 0.000250 EPA RfD= 0.000000	Critical study and data gaps not reviewed by HED RfD/PR Committee. RfD will be evaluated in 1988 Reg. Std.	WHO last reviewed 1972 HED deferred 05/05/87 Ad hoc meeting 07/25/89
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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	235	P 0.500000	0.002000		100.00	0.002000
01014AA	GRAPES-FRESH	21 COOKED-NFS	235	P 0.500000	0.002000		100.00	0.002000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	235	P 0.500000	0.002000		100.00	0.002000
01014DA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	235	P 0.500000	0.500000		2.00	0.010000
01014DA	GRAPES-RAISINS	21 COOKED-NFS	235	P 0.500000	0.500000		2.00	0.010000
01014DA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	235	P 0.500000	0.500000		2.00	0.010000
01014JA	GRAPES-JUICE	10 RAW-FRESH OR NFS	235	P 0.500000	0.500000		2.00	0.010000
01014JA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	235	P 0.500000	0.500000		2.00	0.010000
01014JA	GRAPES-JUICE	21 COOKED-NFS	235	P 0.500000	0.500000		2.00	0.010000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	235	P 1.000000	0.120000		100.00	0.120000
01016AA	STRAWBERRIES	21 COOKED-NFS	235	P 1.000000	0.120000		100.00	0.120000
01016AA	STRAWBERRIES	70 RAW-FROZEN	235	P 1.000000	0.120000		100.00	0.120000
02001AA	CITRUS CITRON	22 COOKED-FRESH-BAKED	NOPE#	P 0.200000	0.200000		100.00	0.200000
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	NOPE#	P 0.200000	0.200000		100.00	0.200000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	NOPE#	P 0.200000	0.200000		100.00	0.200000
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	NOPE#	P 0.200000	0.200000		100.00	0.200000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	NOPE#	P 0.200000	0.003000		100.00	0.003000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	NOPE#	P 0.200000	0.003000		100.00	0.003000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	NOPE#	P 0.200000	0.200000		7.00	0.014000
02004HA	LEMONS-PEEL	21 COOKED-NFS	NOPE#	P 0.200000	0.200000		7.00	0.014000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	NOPE#	P 0.200000	0.200000		7.00	0.014000
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	NOPE#	P 0.200000	0.200000		7.00	0.014000
02004JA	LEMONS-JUICE	21 COOKED-NFS	NOPE#	P 0.200000	0.200000		7.00	0.014000
02004JA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	NOPE#	P 0.200000	0.200000		7.00	0.014000
02005AA	LIMES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	NOPE#	P 0.200000	0.006000		100.00	0.006000
02005AB	LIMES-PULP	10 RAW-FRESH OR NFS	NOPE#	P 0.200000	0.200000		100.00	0.200000
02005HA	LIMES-PEEL	21 COOKED-NFS	NOPE#	P 0.200000	0.200000		100.00	0.200000
02005JA	LIMES-JUICE	10 RAW-FRESH OR NFS	NOPE#	P 0.200000	0.200000		100.00	0.200000
02005JA	LIMES-JUICE	15 RAW-FRESH OR CANNED	NOPE#	P 0.200000	0.200000		100.00	0.200000
02005JA	LIMES-JUICE	31 COOKED-FRESH OR CANNED	NOPE#	P 0.200000	0.200000		100.00	0.200000
02007AA	TANGELOS	10 RAW-FRESH OR NFS	NOPE#	P 0.200000	0.200000		100.00	0.200000
02008AA	TANGERINES	10 RAW-FRESH OR NFS	NOPE#	P 0.200000	0.007000		100.00	0.007000
02008JA	TANGERINE-JUICE	15 RAW-FRESH OR CANNED	NOPE#	P 0.200000	0.200000		100.00	0.200000
07006AA	CHICORY	21 COOKED-NFS	300096	P 0.500000	0.010000		100.00	0.010000
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	235	P 0.500000	0.500000		10.00	0.050000
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	235	P 0.500000	0.003000		100.00	0.003000
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	235	P 0.500000	0.003000		100.00	0.003000
10003AA	CASABAS	10 RAW-FRESH OR NFS	235	P 0.500000	0.500000		100.00	0.500000
10004AA	CRENSHAWNS	00 NOT SPECIFIED (NO CONSUMPTION)	235	P 0.500000	0.500000		100.00	0.500000
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	235	P 0.500000	0.006000		100.00	0.006000

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ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 1608

DATE: 06/01/94

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CHEMICAL	Mevinphos (Phosdrin)	STUDY TYPE	2yr feeding - dog	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
	Caswell #1608		MOEL= 0.0250 mg/kg				
	CAS No. 7786-34-7		LEL= 0.0000 mg/kg				
	A.I. CODE: 015801		ONCO: 0.00 ppm				
	CFR No. 180.157						
	185.4200						

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAs RUN (ppm)
10007AA	PERSION MELONS	00 NOT SPECIFIED (NO CONSUMPTION)	235	P 0.500000	0.500000		100.00	0.500000
10008AA	WATERMELON	10 RAW-FRESH OR NFS	235	P 0.500000	0.003000		100.00	0.003000
10008AA	WATERMELON	21 COOKED-NFS	235	P 0.500000	0.003000		100.00	0.003000
13002AA	CELERY	10 RAW-FRESH OR NFS	235	P 1.000000	0.005000		100.00	0.005000
13002AA	CELERY	21 COOKED-NFS	235	P 1.000000	0.005000		100.00	0.005000
13005AA	BROCCOLI	21 COOKED-NFS	235	P 1.000000	0.005000		100.00	0.005000
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	235	P 1.000000	0.005000		100.00	0.005000
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOLLED	235	P 1.000000	0.005000		100.00	0.005000
13006AA	BRUSSEL SPROUTS	21 COOKED-NFS	235	P 1.000000	0.010000		100.00	0.010000
13007AA	CABBAGE	23 COOKED-FRESH-BOLLED	235	P 1.000000	0.003000		100.00	0.003000
13007AA	CABBAGE	11 RAW-FRESH OR NFS	235	P 1.000000	0.003000		100.00	0.003000
13007AA	CABBAGE	10 RAW-FRESH-PICKLED, CORNED, OR CURED	235	P 1.000000	0.005000		100.00	0.005000
13008AA	CAULIFLOWER	21 COOKED-NFS	235	P 1.000000	0.005000		100.00	0.005000
13008AA	CAULIFLOWER	10 RAW-FRESH OR NFS	235	P 1.000000	0.006000		100.00	0.006000
13009AA	COLLARDS	51 COOKED-CANNED	235	P 1.000000	0.006000		100.00	0.006000
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOLLED	235	P 1.000000	0.006000		100.00	0.006000
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	235	P 1.000000	0.014000		100.00	0.014000
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	235	P 1.000000	0.014000		100.00	0.014000
13011AA	KALE	63 COOKED-FRESH OR FROZEN-BOLLED	235	P 1.000000	0.120000		100.00	0.120000
13011AA	LETTUCE-LEAFY	10 RAW-FRESH OR NFS	235	P 1.000000	0.330000		100.00	0.330000
13013AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	235	P 1.000000	0.007000		100.00	0.007000
13016AA	ARTICHOKE-GLOBE	21 COOKED-NFS	235	P 1.000000	0.010000		100.00	0.010000
13020AA	LETTUCE-UNSPEC	10 RAW-FRESH OR NFS	235	P 0.500000	0.010000		100.00	0.010000
13021AA	MUSTARD GREENS	21 COOKED-NFS	235	P 1.000000	0.010000		100.00	0.010000
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOLLED	235	P 1.000000	0.010000		100.00	0.010000
13022AA	PARSLEY	10 RAW-FRESH OR NFS	235	P 1.000000	1.000000		25.00	0.250000
13022AA	PARSLEY	21 COOKED-NFS	235	P 1.000000	1.000000		25.00	0.250000
13024AA	SPINACH	53 COOKED-CANNED-BOLLED	235	P 1.000000	0.070000		100.00	0.070000
13024AA	SPINACH	10 RAW-FRESH OR NFS	235	P 1.000000	0.070000		100.00	0.070000
13024AA	SPINACH	21 COOKED-NFS	235	P 1.000000	0.070000		100.00	0.070000
13027AA	WATERCRESS	31 COOKED-FRESH OR CANNED	3E2862	P 1.000000	2.000000		100.00	2.000000
13027AA	WATERCRESS	10 RAW-FRESH OR NFS	3E2862	P 2.000000	2.000000		100.00	2.000000
13045AA	LETTUCE-HEAD	21 COOKED-NFS	235	P 0.500000	0.340000		100.00	0.340000
13045AA	LETTUCE-HEAD	10 RAW-FRESH OR NFS	235	P 0.500000	0.340000		100.00	0.340000
15009AA	PEAS SUCC-GARDEN	21 COOKED-NFS	123	P 0.250000	0.003000		100.00	0.003000
15009AA	PEAS SUCC-GARDEN	31 COOKED-FRESH OR CANNED	123	P 0.250000	0.003000		100.00	0.003000
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS	235	P 0.500000	0.500000		2.00	0.010000
43058AA	WINE AND SHERRY	21 COOKED-NFS	235	P 0.500000	0.500000		2.00	0.010000

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TABLE 2

MEVINPHOS ACUTE DIETARY RISK

ALL SUPPORTED CROPS 5/20/94

POPULATION	% of Eaters That Exceed the MOE	% of Pop. That Are Eaters	% of Pop. Exceeding the MOE	MOE for Top Eaters
General Population	10	74.08	7.4	2.5
Infants < 1 year	18	25.31	4.6	1.25
Children 1-6 years	20	70.43	14.1	3.33
Females 13+ years	10	75.16	7.5	3.33
Males 13+ years	7	75.48	5.3	3.33

TABLE 3

MEVINPHOS ACUTE DIETARY RISK

BROCCOLI 5/20/94

POPULATION	% of Eaters That Exceed the MOE	% of Pop. That Are Eaters	% of Pop. Exceeding the MOE	MOE for Top Eaters
General Population	24	2.68	0.64	1.6
Infants < 1 year	65	0.68	0.44	1.6
Children 1-6 years	64	1.96	1.25	1.6
Females 13+ years	21	3.09	0.64	3.2
Males 13+ years	15	2.60	0.39	1.6

TABLE 4

MEVINPHOS ACUTE DIETARY RISK

BRUSSEL SPROUTS 5/20/94

POPULATION	% of Eaters That Exceed the MOE	% of Pop. That Are Eaters	% of Pop. Exceeding the MOE	MOE for Top Eaters
General Population	20	0.32	0.06	1.6
Infants < 1 year	100	0.13	0.13	1.6
Children 1-6 years	74	0.13	0.10	1.6
Females 13+ years	16	0.37	0.06	5.3
Males 13+ years	11	0.31	0.03	4.0

TABLE 5

MEVINPHOS ACUTE DIETARY RISK

CAULIFLOWER 5/25/94

POPULATION	% of Eaters That Exceed the MOE	% of Pop. That Are Eaters	% of Pop. Exceeding the MOE	MOE for Top Eaters
General Population	18	1.01	0.18	1.6
Infants < 1 year	0	0.13	0.00	20
Children 1-6 years	46	0.57	0.26	1.6
Females 13+ years	18	1.23	0.22	3.2
Males 13+ years	10	0.98	0.10	3.2

TABLE 6

MEVINPHOS ACUTE DIETARY RISK

GRAPES 5/20/94

POPULATION	% of Eaters That Exceed the MOE	% of Pop. That Are Eaters	% of Pop. Exceeding the MOE	MOE for Top Eaters
General Population	6	26.76	1.6	2.5
Infants < 1 year	22	4.93	1.1	0.5
Children 1-6 years	16	34.73	5.6	1.43
Females 13+ years	5	24.55	1.2	3.33
Males 13+ years	3	26.65	0.8	3.33

TABLE 7

MEVINPHOS ACUTE DIETARY RISK

LETTUCE 5/20/94

POPULATION	% of Eaters That Exceed the MOE	% of Pop. That Are Eaters	% of Pop. Exceeding the MOE	MOE for Top Eaters
General Population	0	33.99	0	13.3
Infants < 1 year	0	0.23	0	26.7
Children 1-6 years	0	18.56	0	10.0
Females 13+ years	0	37.20	0	13.34
Males 13+ years	0	36.83	0	16.0

TABLE 8

MEVINPHOS ACUTE DIETARY RISK

PEAS, GREEN, IMMATURE 5/20/94

POPULATION	% of Eaters That Exceed the MOE	% of Pop. That Are Eaters	% of Pop. Exceeding the MOE	MOE for Top Eaters
General Population	0	15.84	0	11.42
Infants < 1 year	4	17.40	0.7	4.0
Children 1-6 years	1	17.99	0.18	5.34
Females 13+ years	0	15.19	0	20
Males 13+ years	0	15.77	0	20

TABLE 9

MEVINPHOS ACUTE DIETARY RISK

SPINACH 5/20/94

POPULATION	% of Eaters That Exceed the MOE	% of Pop. That Are Eaters	% of Pop. Exceeding the MOE	MOE for Top Eaters
General Population	15	3.84	0.58	1.60
Infants < 1 year	88	1.64	1.44	1.07
Children 1-6 years	30	2.86	0.86	1.60
Females 13+ years	13	3.62	0.47	4.0
Males 13+ years	12	3.95	0.47	4.0

TABLE 10

MEVINPHOS ACUTE DIETARY RISK

STRAWBERRIES 6/3/94

POPULATION	% of Eaters That Exceed the MOE	% of Pop. That Are Eaters	% of Pop. Exceeding the MOE	MOE for Top Eaters
General Population	2	14.54	0.3	3.3
Infants < 1 year	18	1.03	0.2	1.4
Children 1-6 years	4	17.86	0.7	2.5
Females 13+ years	2	13.09	0.3	5.0
Males 13+ years	1	15.32	0.2	5.0

TABLE 11

MEVINPHOS ACUTE DIETARY RISK

WATERMELON 5/20/94

POPULATION	% of Eaters That Exceed the MOE	% of Pop. That Are Eaters	% of Pop. Exceeding the MOE	MOE for Top Eaters
General Population	50	1.16	0.58	0.8
Infants < 1 year	0	0.23	0	10
Children 1-6 years	71	1.26	0.89	0.5
Females 13+ years	45	1.24	0.56	1.6
Males 13+ years	43	1.02	0.44	0.8