

018201

9-5-89

TAS Section 18 Analysis Summary

TO: D. Stubbs/S. Stanton, PM Team 41
Registration Support and Emergency Response Branch
Registration Division (TS 767C)

Chemical: Phosphamidon

Requesting State: Washington Sec. 18 #: 89-WA-20

Crop(s): Hops

Action Level: 45 ppm

DEB Reviewer: F. Toqhrol Memo Date: 8/3/89

TAS Reviewer: Tomerlin *J.P. Tomerlin* Date: 9/5/89

COMMENTS: The proposed Section 18 on hops contributes the equivalent of 84% of the PADI to the total exposure for the overall U.S. population. Infants and children are not significantly more exposed to phosphamidon residues as a result of request 89-WA-20. However, note that most TAS population groups have exposures that exceed the PADI solely from published tolerances, even when the basis of the exposure estimate is an ARC. For infants, the main contributors to exposure are sugar, orange juice, and apples (particularly juice). The main contributors to exposure for children are the same, with the addition of tomatoes.

ANALYSIS RESULTS ARE ATTACHED

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phosphamidon Caswell #661 CAS No. 13171-21-6 A.I. CODE: 018201 CFR No. 180.239	2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 1.5000 mg/kg 30.00 ppm ONCO: Pending NOTE.	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	IPADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000000	Chronic feeding- dog Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	HED complete 7/31/87. EPA not scheduled. WHO last reviewed 1986.

TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES
CURRENT TMRC*	NEW TMRC**	AS PERCENT OF RFD	ARC
0.004353	0.004521	84.179000	0.000378
0.004142	0.004328	92.659500	0.000379
0.004172	0.004352	90.166500	0.000393
0.004504	0.004661	78.761500	0.000372
0.004582	0.004732	75.107500	0.000363
0.005119	0.005356	118.149500	0.000459
0.004330	0.004484	77.263000	0.000362
0.003613	0.003721	54.065000	0.000294
0.004620	0.004821	100.741500	0.000429
0.005330	0.005469	69.257000	0.000347
0.004367	0.004552	92.574000	0.000399
0.003692	0.003769	38.724500	0.000250
0.005110	0.005249	69.293500	0.000357
0.008090	0.008090	0.000000	0.000472
0.013060	0.013060	0.000000	0.000720
0.003518	0.003538	10.053000	0.000172
0.003637	0.003728	45.607500	0.000263
0.011018	0.011019	0.481500	0.000532
0.006404	0.006404	0.000000	0.000318
0.003878	0.003962	41.636000	0.000274
0.003538	0.003566	13.628500	0.000205
0.002817	0.003293	238.223000	0.000611
0.003135	0.003226	45.229500	0.000231

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

TOLERANCE ASSESSMENT SUMMARY FOR Phosphamidon
USING ANTICIPATED RESIDUES
CASWELL #661

DATE: 08/02/89

ANALYSIS FOR POPULATION SUB-GROUP: U.S. POPULATION - 48 STATES

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)
RESULT IN AN ARC OF: 0.000210 MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO: 104.766 % OF THE ADI.

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
RESULT IN AN ARC OF: 0.000168 MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY: 84.179 % OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
ARE APPROVED THE RESULTANT ARC WILL BE: 0.000378 MG/KG/DAY
THE NEW ARC WILL OCCUPY 188.945 % OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

ANALYSIS FOR POPULATION SUB-GROUP: NON-NURSING INFANTS (< 1 YEAR OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)
RESULT IN AN ARC OF: 0.000720 MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO: 360.077 % OF THE ADI.

NO NEW ANTICIPATED RESIDUES ARE IN THE FILE.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

ANALYSIS FOR POPULATION SUB-GROUP: CHILDREN (1-6 YEARS OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)
RESULT IN AN ARC OF: 0.000531 MG/KG/DAY
THE EXISTING ARC IS EQUIVALENT TO: 265.570 % OF THE ADI.

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
RESULT IN AN ARC OF: <0.000001 MG/KG/DAY
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY: 0.482 % OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)
ARE APPROVED THE RESULTANT ARC WILL BE: 0.000532 MG/KG/DAY
THE NEW ARC WILL OCCUPY 266.052 % OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phosphamidon	2yr feeding- rat	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	IPADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000000	Chronic feeding- dog Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	HED complete 7/31/87. EPA not scheduled. WHO last reviewed 1986.
Caswell #661	NOEL= 0.0500 mg/kg				
CAS No. 13171-21-6	1.00 ppm				
A.I. CODE: 018201	LEL= 1.5000 mg/kg				
CFR No. 180.239	30.00 ppm				
	ONCO: Pending NOTE.				

FOOD CODE	FOOD	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
02002AA	GRAPEFRUIT-UNSP	7F0546	P 0.750000	0.750000		1.00	0.007500
02002AB	GRAPEFRUIT-PULP	7F0546	P 0.750000	0.750000		1.00	0.007500
02002AB	GRAPEFRUIT-PULP	7F0546	P 0.750000	0.750000		1.00	0.007500
02002AB	GRAPEFRUIT-PULP	7F0546	P 0.750000	0.750000		1.00	0.007500
02002JA	GRAPEFRUIT-JUICE	7F0546	P 0.750000	0.750000		1.00	0.007500
02002JA	GRAPEFRUIT-JUICE	7F0546	P 0.750000	0.750000		1.00	0.007500
02004AA	LEMONS-UNSPEC	7F0546	P 0.750000	0.750000		1.00	0.007500
02004AA	LEMONS-UNSPEC	7F0546	P 0.750000	0.750000		1.00	0.007500
02004AB	LEMONS-PULP	7F0546	P 0.750000	0.750000		1.00	0.007500
02004AB	LEMONS-PULP	7F0546	P 0.750000	0.750000		1.00	0.007500
02004HA	LEMONS-PEEL	7F0546	P 0.750000	0.750000		1.10	0.008250
02004HA	LEMONS-PEEL	7F0546	P 0.750000	0.750000		1.00	0.007500
02004JA	LEMONS-JUICE	7F0546	P 0.750000	0.750000		1.00	0.007500
02004JA	LEMONS-JUICE	7F0546	P 0.750000	0.750000		1.00	0.007500
02004JA	LEMONS-JUICE	7F0546	P 0.750000	0.750000		1.00	0.007500
02004JA	LEMONS-JUICE	7F0546	P 0.750000	0.750000		1.00	0.007500
02006AA	ORANGES-UNSPEC	7F0546	P 0.750000	0.750000		1.00	0.007500
02006AB	ORANGES-PULP	7F0546	P 0.750000	0.750000		1.00	0.007500
02006AB	ORANGES-PULP	7F0546	P 0.750000	0.750000		1.00	0.007500
02006HA	ORANGES-PEEL	7F0546	P 0.750000	0.750000		1.00	0.007500
02006HA	ORANGES-PEEL	7F0546	P 0.750000	0.750000		1.00	0.007500
02006HA	ORANGES-PEEL	7F0546	P 0.750000	0.750000		1.00	0.007500
02006JA	ORANGES-JUICE	7F0546	P 0.750000	0.750000		1.00	0.007500
02006JA	ORANGES-JUICE	7F0546	P 0.750000	0.750000		1.00	0.007500
02008AA	TANGERINES	7F0546	P 0.750000	0.750000		100.00	0.750000
02008JA	TANGERINE-JUICE	7F0546	P 0.750000	0.750000		100.00	0.750000
03009AA	WALNUTS	7F0546	P 0.100000	0.100000		4.00	0.004000
03009AA	WALNUTS	7F0546	P 0.100000	0.100000		4.00	0.004000
03009AA	WALNUTS	7F0546	P 0.100000	0.100000		4.00	0.004000
04001AA	APPLES-FRESH	7F0546	P 1.000000	1.000000		7.00	0.070000
04001AA	APPLES-FRESH	7F0546	P 1.000000	1.000000		7.00	0.070000
04001AA	APPLES-FRESH	7F0546	P 1.000000	1.000000		7.00	0.070000
04001AA	APPLES-FRESH	7F0546	P 1.000000	1.000000		7.00	0.070000
04001DA	APPLES-DRIED	7F0546	P 1.000000	1.000000		7.00	0.070000
04001DA	APPLES-DRIED	7F0546	P 1.000000	1.000000		7.00	0.070000
04001DA	APPLES-DRIED	7F0546	P 1.000000	1.000000		7.00	0.070000
04001JA	APPLES-JUICE	7F0546	P 1.000000	1.000000		7.00	0.070000
04001JA	APPLES-JUICE	7F0546	P 1.000000	1.000000		7.00	0.070000
08020AA	HOPS	89WA-20	N 45.000000	45.000000		100.00	45.000000
08048DA	PAPRIKA	7F0546	P 0.500000	0.500000		100.00	0.500000
10002AA	CANTALOUPE-UNSP	7F0546	P 0.250000	0.250000		100.00	0.250000

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FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
				PADI	UF		
Phosphamidon		2yr feeding- rat	Inhibition of serum and brain CHE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	0.0500 mg/kg	0.000200	Chronic feeding- dog	HED complete 7/31/87.
Caswell #561		NOEL= 1.00 ppm		1.00 ppm	0.000000	Mouse oncogenicity	EPA not scheduled.
CAS No. 13171-21-6		LET= 30.00 ppm		30.00 ppm	0.000000	Extra UF of 3 used due to lack of firm NOEL for brain CHE in rat, lack of dog study.	WHO last reviewed 1986.
A.I. CODE: Q18201		ONCO: Pending WOTE.					
CFR No. 180.237							

FOOD CODE	FOOD	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAs RUN (ppm)
10002AB	CANTALOUPE-PULP	7F0546	P 0.250000	0.250000		100.00	0.250000
10002AB	CANTALOUPE-PULP	7F0546	P 0.250000	0.250000		100.00	0.250000
10002AB	CANTALOUPE-PULP	7F0546	P 0.250000	0.250000		1.00	0.002500
10008AA	WATERMELON	7F0546	P 0.250000	0.250000		1.00	0.002500
10008AA	WATERMELON	7F0546	P 0.250000	0.250000		1.00	0.005000
10010AA	CUCUMBERS	7F0546	P 0.500000	0.500000		1.00	0.005000
10010AA	CUCUMBERS	7F0546	P 0.500000	0.500000		1.00	0.005000
10010AA	CUCUMBERS	7F0546	P 0.500000	0.500000		1.00	0.005000
11003AA	PEPPERS, SWEET	7F0546	P 0.500000	0.500000		1.00	0.005000
11003AA	PEPPERS, SWEET	7F0546	P 0.500000	0.500000		1.00	0.005000
11003AB	CHILI PEPPERS	7F0546	P 0.500000	0.500000		1.00	0.005000
11003AD	PEPPERS-OTHER	7F0546	P 0.500000	0.500000		1.00	0.005000
11003AD	PEPPERS-OTHER	7F0546	P 0.500000	0.500000		1.00	0.005000
11003AD	PEPPERS-OTHER	7F0546	P 0.500000	0.500000		100.00	0.500000
11004AA	PIMIENTOS	7F0546	P 0.500000	0.500000		100.00	0.500000
11004AA	PIMIENTOS	7F0546	P 0.500000	0.500000		100.00	0.500000
11004AA	PIMIENTOS	7F0546	P 0.500000	0.500000		2.50	0.025000
11005AA	TOMATOES-WHOLE	7F0546	P 1.000000	1.000000		2.50	0.025000
11005AA	TOMATOES-WHOLE	7F0546	P 1.000000	1.000000		2.50	0.025000
11005AA	TOMATOES-WHOLE	7F0546	P 1.000000	1.000000		2.50	0.025000
11005AA	TOMATOES-WHOLE	7F0546	P 1.000000	1.000000		2.50	0.025000
11005JA	TOMATOES-JUICE	7F0546	P 1.000000	1.000000		2.50	0.025000
11005JA	TOMATOES-JUICE	7F0546	P 1.000000	1.000000		2.50	0.025000
11005RA	TOMATOES-PUREE	7F0546	P 1.000000	1.000000		2.50	0.025000
11005RA	TOMATOES-PUREE	7F0546	P 1.000000	1.000000		2.50	0.025000
11005RA	TOMATOES-PUREE	7F0546	P 1.000000	1.000000		2.50	0.025000
11005RA	TOMATOES-PUREE	7F0546	P 1.000000	1.000000		2.50	0.025000
11005TA	TOMATOES-PASTE	7F0546	P 1.000000	1.000000		2.50	0.025000
11005TA	TOMATOES-PASTE	7F0546	P 1.000000	1.000000		2.50	0.025000
11005TA	TOMATOES-PASTE	7F0546	P 1.000000	1.000000		2.50	0.025000
11005TA	TOMATOES-PASTE	7F0546	P 1.000000	1.000000		2.50	0.025000
13005AA	BROCCOLI	7F0546	P 0.500000	0.500000		2.50	0.012500
13005AA	BROCCOLI	7F0546	P 0.500000	0.500000		2.50	0.012500
13005AA	BROCCOLI	7F0546	P 0.500000	0.500000		2.50	0.012500
13005AA	BROCCOLI	7F0546	P 0.500000	0.500000		2.50	0.012500
13008AA	CAULIFLOWER	7F0546	P 0.500000	0.500000		6.00	0.030000
13008AA	CAULIFLOWER	7F0546	P 0.500000	0.500000		6.00	0.030000
14013AA	POTATO(WH)-WHOLE	OF0974	P 0.100000	0.100000		3.00	0.003000
14013AA	POTATO(WH)-WHOLE	OF0974	P 0.100000	0.100000		3.00	0.003000
14013AA	POTATO(WH)-WHOLE	OF0974	P 0.100000	0.100000		3.00	0.003000
14013AA	POTATO(WH)-WHOLE	OF0974	P 0.100000	0.100000		3.00	0.003000
14013AB	POTATO(WH)-UNSP	OF0974	P 0.100000	0.100000		3.00	0.003000
14013AB	POTATO(WH)-UNSP	OF0974	P 0.100000	0.100000		3.00	0.003000
14013AC	POTATO(WH)-PULP	OF0974	P 0.100000	0.100000		3.00	0.003000
14013AC	POTATO(WH)-PULP	OF0974	P 0.100000	0.100000		3.00	0.003000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phosphamidon Caswell #661 CAS No. 13171-21-6 A.I. CODE: 018201 CFR No. 180.239	2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 1.5000 mg/kg 30.00 ppm ONCO: Pending WOTE.	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	IPADI UF -->300 OPP RED= 0.000200 EPA RED= 0.000000	Chronic feeding- dog Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	HED complete 7/31/87. EPA not scheduled. WHO last reviewed 1986.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
14013AC	POTATO (WH) -PULP	22 COOKED-FRESH-BAKED	OF0974	P 0.100000	0.100000		3.00	0.003000
14013AC	POTATO (WH) -PULP	23 COOKED-FRESH-BOILED	OF0974	P 0.100000	0.100000		3.00	0.003000
14013AC	POTATO (WH) -PULP	25 COOKED-FRESH-FRIED	OF0974	P 0.100000	0.100000		3.00	0.003000
14013DA	POTATO (WH) -DRY	10 RAW-FRESH OR NFS	OF0974	P 0.100000	0.100000		3.00	0.003000
14013DA	POTATO (WH) -DRY	31 COOKED-FRESH OR CANNED	OF0974	P 0.100000	0.100000		3.00	0.003000
14013HA	POTATO (WH) -PEEL	22 COOKED-FRESH-BAKED	OF0974	P 0.100000	0.100000		100.00	0.100000
250035A	CANE SUGAR	10 RAW-FRESH OR NFS	OF0974	P 0.100000	0.100000		100.00	0.100000
250035A	CANE SUGAR	21 COOKED-NFS	OF0974	P 0.100000	0.100000		100.00	0.100000
250035A	CANE SUGAR	22 COOKED-FRESH-BAKED	OF0974	P 0.100000	0.100000		100.00	0.100000
250035A	CANE SUGAR	31 COOKED-FRESH OR CANNED	OF0974	P 0.100000	0.100000		100.00	0.100000
250035B	SUGAR-MOLASSES	10 RAW-FRESH OR NFS	OF0974	P 0.100000	0.100000		100.00	0.100000
250035B	SUGAR-MOLASSES	21 COOKED-NFS	OF0974	P 0.100000	0.100000		100.00	0.100000
250035B	SUGAR-MOLASSES	22 COOKED-FRESH-BAKED	OF0974	P 0.100000	0.100000		100.00	0.100000
250035B	SUGAR-MOLASSES	31 COOKED-FRESH OR CANNED	OF0974	P 0.100000	0.100000		100.00	0.100000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	OF0974	P 0.100000	0.100000		1.00	0.001000
27003WA	COTTONSEED-NEAL	18 PROCESSED OIL	OF0974	P 0.100000	0.100000		1.00	0.001000

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phosphamidon Caswell #661 CAS No. 13171-21-6 A.I. CODE: 018201 CFR No. 180.239	2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 1.5000 mg/kg 30.00 ppm ONCO: Pending NOTE.	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	PADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000000	Chronic feeding- dog Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	HED complete 7/31/87. EPA not scheduled. WHO last reviewed 1986.

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
08020AA	HOPS	45.000	N	0.168358	84.179	45.00000	0.168358	84.179
	21 COOKED-NFS							
25003SA	CANE SUGAR	0.100	P	0.073576	36.788	0.10000	0.008434	4.217
	10 RAW-FRESH OR NFS					0.10000	0.018980	9.490
	21 COOKED-NFS					0.10000	0.012455	6.228
	22 COOKED-FRESH-BAKED					0.10000	0.033707	16.854
	31 COOKED-FRESH OR CANNED							
25003SB	SUGAR-MOLASSES	0.100	P	0.001052	0.526	0.10000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.10000	0.000322	0.161
	21 COOKED-NFS					0.10000	0.000557	0.279
	22 COOKED-FRESH-BAKED					0.10000	0.000172	0.086
	31 COOKED-FRESH OR CANNED							
270030A	COTTONSEED-OIL	0.100	P	0.002041	1.021	0.00100	0.000020	0.010
	18 PROCESSED OIL							
27003WA	COTTONSEED-MEAL	0.100	P	0.000012	0.006	0.00100	0.000000	0.000
	18 PROCESSED OIL							
CROP GROUP TOTALS FOR UNSPECIFIED:					122.520	0.245039	0.243005	121.503

14013AA	POTATOES(WHITE)-WHOLE	0.100	P	0.034006	17.003	0.00300	0.000137	0.069
	10 RAW-FRESH OR NFS					0.00300	0.000450	0.225
	21 COOKED-NFS					0.00300	0.000434	0.217
	22 COOKED-FRESH-BAKED							
14013AB	POTATOES(WHITE)-UNSPECIFIED	0.100	P	0.000008	0.004	0.00300	0.000000	0.000
	22 COOKED-FRESH-BAKED							
14013AC	POTATOES(WHITE)-PEELED	0.100	P	0.078426	39.213	0.00300	0.000216	0.108
	21 COOKED-NFS					0.00300	0.000128	0.064
	22 COOKED-FRESH-BAKED					0.00300	0.001300	0.650
	23 COOKED-FRESH-BOILED					0.00300	0.000708	0.354
	25 COOKED-FRESH-FRIED							
14013DA	POTATOES(WHITE)-DRY	0.100	P	0.000845	0.423	0.00300	0.000011	0.006
	10 RAW-FRESH OR NFS					0.00300	0.000014	0.007
	31 COOKED-FRESH OR CANNED							
14013HA	POTATOES(WHITE)-PEEL ONLY	0.100	P	0.000002	0.001	0.00300	0.000000	0.000
	22 COOKED-FRESH-BAKED							
CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:					56.644	0.113287	0.003398	1.699

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phosphamidon	2yr feeding- rat	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	PADI UF -->300	Chronic feeding- dog	HED complete 7/31/87.	
Caswell #661	NOEL= 0.0500 mg/kg		OPP RfD= 0.000200	Mouse oncogenicity	EPA not scheduled.	
CAS No. 13171-21-6	1.00 ppm		EPA RfD= 0.000000	Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	WHO last reviewed 1986.	
A.I. CODE: 018201	LEL= 1.5000 mg/kg					
CFR No. 180.239	30.00 ppm					
	ONCO: Pending NOTE.					

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
13005AA	BROCCOLI	0.500	P	0.024565	12.283	0.01250	0.000043	0.022
	21 COOKED-NFS					0.01250	0.000506	0.253
	31 COOKED-FRESH OR CANNED					0.01250	0.000065	0.033
13008AA	CAULIFLOWER	0.500	P	0.007918	3.959	0.03000	0.000028	0.014
	10 RAW-FRESH OR NFS					0.03000	0.000447	0.224
	21 COOKED-NFS							
CROP GROUP TOTALS FOR BRASSICA (COLE) LEAFY VEGETABLES:								
				0.032483	16.242		0.001089	0.545

11003AA	PEPPERS, SWEET GARDEN	0.500	P	0.010776	5.388	0.00500	0.000034	0.017
	10 RAW-FRESH OR NFS					0.00500	0.000074	0.037
	21 COOKED-NFS							
11003AB	CHILL PEPPERS	0.500	P	0.002054	1.027	0.00500	0.000021	0.011
	00 NOT SPECIFIED (NO CONSUMPTION)							
11003AD	PEPPERS-OTHER	0.500	P	0.002180	1.090	0.00500	0.000003	0.002
	10 RAW-FRESH OR NFS					0.00500	0.000017	0.009
	21 COOKED-NFS					0.00500	0.000002	0.001
	51 COOKED-CANNED							
11004AA	PIMIENTOS	0.500	P	0.000974	0.487	0.50000	0.000267	0.134
	10 RAW-FRESH OR NFS					0.50000	0.000379	0.190
	21 COOKED-NFS					0.50000	0.000328	0.164
11005AA	TOMATOES-WHOLE	1.000	P	0.492016	246.008	0.02500	0.006279	3.140
	10 RAW-FRESH OR NFS					0.02500	0.004841	2.421
	21 COOKED-NFS					0.02500	0.001180	0.590
11005JA	TOMATOES-JUICE	1.000	P	0.082703	41.352	0.02500	0.000075	0.038
	10 RAW-FRESH OR NFS					0.02500	0.001992	0.996
	21 COOKED-NFS							
11005RA	TOMATOES-PUREE	1.000	P	0.561763	280.882	0.02500	0.000005	0.003
	10 RAW-FRESH OR NFS					0.02500	0.007901	3.951
	21 COOKED-NFS					0.02500	0.001357	0.679
	31 COOKED-FRESH OR CANNED					0.02500	0.001828	0.914
	32 COOKED-FRESH OR CANNED-BAKED					0.02500	0.002953	1.477
	51 COOKED-CANNED							
11005TA	TOMATOES-PASTE	1.000	P	0.213174	106.587	0.02500	0.003758	1.879
	21 COOKED-NFS					0.02500	0.000719	0.360
	22 COOKED-FRESH-BAKED					0.02500	0.000853	0.427
	31 COOKED-FRESH OR CANNED							
11005UA	TOMATOES-CATSUP	1.000	P	0.105080	52.540	0.02500	0.002627	1.314
	21 COOKED-NFS							

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CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Phosphamidon	Caswell #661	2yr feeding- rat	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	PADI UF -->300	Chronic feeding- dog	HED complete 7/31/87.					
	CAS No. 13171-21-6	NOEL= 0.0500 mg/kg		OPP RfD= 0.000200	Mouse oncogenicity	EPA not scheduled.					
	A.I. CODE: 018201	LEL= 1.5000 mg/kg		EPA RfD= 0.000000	Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	WHO last reviewed 1986.					
	CFR No. 180.239	30.00 ppm									
		ONCO: Pending NOTE.									

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	\$RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	\$RFD
CROP GROUP TOTALS FOR FRUITING VEGETABLES (EXCL. CUCURBITTS):								
				1.470720	735.360		0.037493	18.747
10002AA	CANTALOUPE-UNSPECIFIED	0.250	P	0.000000	0.000	0.25000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
10002AB	CANTALOUPE-PULP	0.250	P	0.011106	5.553	0.25000	0.011049	5.525
	10 RAW-FRESH OR NFS					0.25000	0.000057	0.029
	21 COOKED-NFS							
10008AA	WATERMELON	0.250	P	0.019126	9.563	0.00250	0.000191	0.096
	10 RAW-FRESH OR NFS					0.00250	0.000000	0.000
	21 COOKED-NFS							
10010AA	CUCUMBERS	0.500	P	0.036041	18.021	0.00500	0.000192	0.096
	10 RAW-FRESH OR NFS					0.00500	0.000156	0.078
	11 RAW-FRESH-PICKLED,CORNE,OR CURED					0.00500	0.000012	0.006
	21 COOKED-NFS							
CROP GROUP TOTALS FOR FRUITING VEGETABLES (CUCURBITTS):								
				0.066273	33.137		0.011657	5.829

02002AA	GRAPEFRUIT-UNSPECIFIED	0.750	P	0.000001	0.001	0.00750	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
02002AB	GRAPEFRUIT-PULP	0.750	P	0.051348	25.674	0.00750	0.000513	0.257
	10 RAW-FRESH OR NFS					0.00750	0.000001	0.001
	21 COOKED-NFS							
02002JA	GRAPEFRUIT-JUICE	0.750	P	0.121840	60.920	0.00750	0.001177	0.589
	15 RAW-FRESH OR CANNED					0.00750	0.000041	0.021
	31 COOKED-FRESH OR CANNED							
02004AA	LEMONS-UNSPECIFIED	0.750	P	0.001552	0.776	0.00750	0.000015	0.008
	10 RAW-FRESH OR NFS					0.00750	0.000001	0.001
	22 COOKED-FRESH-BAKED							
02004AB	LEMONS-PULP	0.750	P	0.000161	0.081	0.00750	0.000001	0.001
	10 RAW-FRESH OR NFS					0.00750	0.000001	0.001
	31 COOKED-FRESH OR CANNED							
02004HA	LEMONS-PEEL	0.750	P	0.000193	0.097	0.00825	0.000002	0.001
	10 RAW-FRESH OR NFS					0.00750	0.000000	0.000
	21 COOKED-NFS							
02004JA	LEMONS-JUICE	0.750	P	0.028435	14.218	0.00750	0.000063	0.032
	10 RAW-FRESH OR NFS					0.00750	0.000040	0.020
	15 RAW-FRESH OR CANNED					0.00750	0.000095	0.048
	21 COOKED-NFS					0.00750	0.000086	0.043
	31 COOKED-FRESH OR CANNED							
02006AA	ORANGES-UNSPECIFIED	0.750	P	0.000001	0.001	0.00750	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
			PAOI	UF	Chronic feeding- dog	HED complete 7/31/87.	
Phosphamidon Caswell #661 CAS No. 13171-21-6 A.I. CODE: 018201 CFR No. 180.239	2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 1.5000 mg/kg 30.00 ppm ONCO: Pending NOTE.	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	OPF RfD= 0.000200 EPA RfD= 0.000000	Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	EPA not scheduled. WHO last reviewed 1986.	

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	EFFECTS TYPE (UG/KG/DAY)	TMRC (UG/KG/DAY)	RFD	ANTICIPATED RESIDUE (UG/KG/DAY)		
						ARC (PPM)	RFD	
02006AB	ORANGES-PULP 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.750	P	0.112764	56.382	0.00750 0.00750	0.001125 0.000003	0.563 0.002
02006HA	ORANGES-PEEL 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	0.750	P	0.000102	0.051	0.00750 0.00750 0.00750	0.000000 0.000001 0.000000	0.000 0.001 0.000
02006JA	ORANGES-JUICE 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED	0.750	P	1.477881	738.941	0.00750 0.00750	0.014295 0.000483	7.148 0.242
02008AA	TANGERINES 10 RAW-FRESH OR NFS 15 RAW-FRESH OR CANNED	0.750	P	0.006633	3.317	0.75000	0.006633	3.317
02008JA	TANGERINE-JUICE 15 RAW-FRESH OR CANNED	0.750	P	0.000113	0.057	0.75000	0.000113	0.057
CROP GROUP TOTALS FOR CITRUS FRUITS:					900.512	0.024689		12.345

04001AA	APPLES-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 62 COOKED-FRESH OR FROZEN-BAKED	1.000	P	0.456729	228.365	0.07000 0.07000 0.07000 0.07000	0.021521 0.000465 0.008334 0.001651	10.761 0.233 4.167 0.826
04001DA	APPLES-DRIED 10 RAW-FRESH OR NFS 22 COOKED-FRESH-BAKED 62 COOKED-FRESH OR FROZEN-BAKED	1.000	P	0.001651	0.826	0.07000 0.07000 0.07000	0.000057 0.000022 0.000036	0.029 0.011 0.018
04001JA	APPLES-JUICE 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED	1.000	P	0.332474	166.237	0.07000 0.07000	0.017941 0.005332	8.971 2.666
CROP GROUP TOTALS FOR POME FRUITS:					395.427	0.055359		27.680

03009AA	WALNUTS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	0.100	P	0.000482	0.241	0.00400 0.00400 0.00400	0.000006 0.000000 0.000013	0.003 0.000 0.007
CROP GROUP TOTALS FOR TREE NUTS:					0.241	0.000019		0.010

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phosphamidon Caswell #661 CAS No. 13171-21-6 A.I. CODE: 018201 CFR No. 180.239	2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 1.5000 mg/kg 30.00 ppm ONCO: Pending NOTE.	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	PADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000000	Chronic feeding- dog Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	HED complete 7/31/87. EPA not scheduled. WHO last reviewed 1986.

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

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
08048DA	PAPRIKA	0.500	P	0.001180	0.590	0.50000	0.001180	0.590
	OO NOT SPECIFIED (NO CONSUMPTION)							
CROP GROUP TOTALS FOR HERBS AND SPICES:					0.001180	0.590	0.001180	0.590

GRAND TOTALS FOR U.S. POPULATION - 48 STATES

4.521342 2260.671 0.377889 188.945

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

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phosphamidon Caswell #661 CAS No. 13171-21-6 A.I. CODE: 018201 CFR No. 180.239	2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 1.5000 mg/kg 30.00 ppm ONCO: Pending NOTE.	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	IPADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000000	Chronic feeding- dog Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	HED complete 7/31/87. EPA not scheduled. WHO last reviewed 1986.

COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
08020AA	HOPS	45.000	N	0.000000	0.000	45.00000	0.000000	0.000
	21 COOKED-NFS							
25003SA	CANE SUGAR	0.100	P	0.085490	42.745	0.10000	0.003420	1.710
	10 RAW-FRESH OR NFS					0.10000	0.028832	14.416
	21 COOKED-NFS					0.10000	0.007036	3.518
	22 COOKED-FRESH-BAKED					0.10000	0.046202	23.101
	31 COOKED-FRESH OR CANNED							
25003SB	SUGAR-MOLASSES	0.100	P	0.000698	0.349	0.10000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.10000	0.000000	0.000
	21 COOKED-NFS					0.10000	0.000000	0.000
	22 COOKED-FRESH-BAKED					0.10000	0.000545	0.273
	31 COOKED-FRESH OR CANNED					0.10000	0.000154	0.077
27003OA	COTTONSEED-OIL	0.100	P	0.000544	0.272	0.00100	0.000005	0.003
	18 PROCESSED OIL							
27003WA	COTTONSEED-MEAL	0.100	P	0.000063	0.032	0.00100	0.000001	0.001
	18 PROCESSED OIL							
					43.398	0.086795	0.086195	43.098
CROP GROUP TOTALS FOR UNSPECIFIED:								
14013AA	POTATOES (WHITE)-WHOLE	0.100	P	0.027679	13.840	0.00300	0.000166	0.083
	10 RAW-FRESH OR NFS					0.00300	0.000191	0.096
	21 COOKED-NFS					0.00300	0.000474	0.237
	22 COOKED-FRESH-BAKED							
14013AB	POTATOES (WHITE)-UNSPECIFIED	0.100	P	0.000000	0.000	0.00300	0.000000	0.000
	22 COOKED-FRESH-BAKED					0.00300	0.000284	0.142
14013AC	POTATOES (WHITE)-PEELED	0.100	P	0.079250	39.625	0.00300	0.000265	0.133
	21 COOKED-NFS					0.00300	0.001679	0.840
	22 COOKED-FRESH-BAKED					0.00300	0.000150	0.075
	23 COOKED-FRESH-BOILED							
	25 COOKED-FRESH-FRIED							
14013DA	POTATOES (WHITE)-DRY	0.100	P	0.032566	16.283	0.00300	0.000051	0.026
	10 RAW-FRESH OR NFS					0.00300	0.000926	0.463
	31 COOKED-FRESH OR CANNED							
14013HA	POTATOES (WHITE)-PEEL ONLY	0.100	P	0.000000	0.000	0.00300	0.000000	0.000
	22 COOKED-FRESH-BAKED							
					69.748	0.139495	0.004186	2.093
CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:								

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GRPS/COMMENTS	STATUS
Phosphamidon Caswell #661 CAS No. 13171-21-6 A.I. CODE: 018201 CFR No. 180.239	2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 1.5000 mg/kg 30.00 ppm ONCO: Pending MOTE.	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	PADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000000	Chronic feeding- dog Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	HED complete 7/31/87. EPA not scheduled. WHO last reviewed 1986.	

COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RED	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
13005AA	BROCCOLI 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 63 COOKED-FRESH OR FROZEN-BOILED	0.500	P	0.013147	6.574	0.01250 0.01250 0.01250	0.000091 0.000199 0.000039	0.046 0.100 0.020
13008AA	CAULIFLOWER 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.500	P	0.000886	0.443	0.03000 0.03000	0.000000 0.000053	0.000 0.027
CROP GROUP TOTALS FOR BRASSICA (COLE) LEAFY VEGETABLES:						0.014033	7.017	0.191

11003AA	PEPPERS, SWEET, GARDEN 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.500	P	0.001800	0.900	0.00500 0.00500	0.000001 0.000017	0.001 0.009
11003AB	CHILI PEPPERS 00 NOT SPECIFIED (NO CONSUMPTION)	0.500	P	0.000000	0.000	0.00500	0.000000	0.000
11003AD	PEPPERS-OTHER 10 RAW-FRESH OR NFS 21 COOKED-NFS 51 COOKED-CANNED	0.500	P	0.000018	0.009	0.00500 0.00500 0.00500	0.000000 0.000000 0.000000	0.000 0.000 0.000
11004AA	PIMIENTOS 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	0.500	P	0.000000	0.000	0.50000 0.50000 0.50000	0.000000 0.000000 0.000000	0.000 0.000 0.000
11005AA	TOMATOES-WHOLE 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	1.000	P	0.453186	226.593	0.02500 0.02500 0.02500	0.000090 0.002257 0.008983	0.045 1.129 4.492
11005JA	TOMATOES-JUICE 10 RAW-FRESH OR NFS 21 COOKED-NFS	1.000	P	0.000000	0.000	0.02500 0.02500	0.000000 0.000000	0.000 0.000
11005RA	TOMATOES-PUREE 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 32 COOKED-FRESH OR CANNED-BAKED 51 COOKED-CANNED	1.000	P	0.345835	172.918	0.02500 0.02500 0.02500 0.02500 0.02500	0.000000 0.000714 0.004559 0.000054 0.003319	0.000 0.357 2.280 0.027 1.660
11005TA	TOMATOES-PASTE 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	1.000	P	0.162886	81.443	0.02500 0.02500 0.02500	0.002150 0.000457 0.001465	1.075 0.229 0.733
11005VA	TOMATOES-CATSUP 21 COOKED-NFS	1.000	P	0.009413	4.707	0.02500	0.000235	0.118

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phosphamidon Caswell #661 CAS No. 13171-21-6 A.I. CODE: 018201 CFR No. 180.239	2yr feeding- rat NOEL= 0.0500 mg/kg LEL= 1.00 ppm 30.00 ppm ONCO: Pending MOTE.	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	PADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000000	Chronic feeding- dog Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	HED complete 7/31/87. EPA not scheduled. WHO last reviewed 1986.

COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
CROP GROUP TOTALS FOR FRUITING VEGETABLES (EXCL. CUCURBITS):								
		0.973138		486.569		0.024301		12.151
10002AA	CANTALOUPE-UNSPECIFIED	0.250	P	0.000000	0.000	0.25000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
10002AB	CANTALOUPE-PULP	0.250	P	0.001898	0.949	0.25000	0.001898	0.949
	10 RAW-FRESH OR NFS					0.25000	0.000000	0.000
	21 COOKED-NFS							
10008AA	WATERMELON	0.250	P	0.003913	1.957	0.00250	0.000039	0.020
	10 RAW-FRESH OR NFS					0.00250	0.000000	0.000
	21 COOKED-NFS							
10010AA	CUCUMBERS	0.500	P	0.012767	6.384	0.00500	0.000126	0.063
	10 RAW-FRESH OR NFS					0.00500	0.000002	0.001
	11 RAW-FRESH-PICKLED, CORNED, OR CURED					0.00500	0.000000	0.000
	21 COOKED-NFS							
CROP GROUP TOTALS FOR FRUITING VEGETABLES (CUCURBITS):								
		0.018578		9.289		0.002065		1.033

02002AA	GRAPEFRUIT-UNSPECIFIED	0.750	P	0.000000	0.000	0.00750	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							
02002AB	GRAPEFRUIT-PULP	0.750	P	0.000000	0.000	0.00750	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00750	0.000000	0.000
	21 COOKED-NFS							
02002JA	GRAPEFRUIT-JUICE	0.750	P	0.174195	87.098	0.00750	0.001742	0.871
	15 RAW-FRESH OR CANNED					0.00750	0.000000	0.000
	31 COOKED-FRESH OR CANNED							
02004AA	LEMONS-UNSPECIFIED	0.750	P	0.000030	0.015	0.00750	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00750	0.000000	0.000
	22 COOKED-FRESH-BAKED							
02004AB	LEMONS-PULP	0.750	P	0.000000	0.000	0.00750	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00750	0.000000	0.000
	31 COOKED-FRESH OR CANNED							
02004HA	LEMONS-PEEL	0.750	P	0.000013	0.007	0.00825	0.000000	0.000
	10 RAW-FRESH OR NFS					0.00825	0.000000	0.000
	21 COOKED-NFS							
02004JA	LEMONS-JUICE	0.750	P	0.005495	2.748	0.00750	0.000009	0.005
	10 RAW-FRESH OR NFS					0.00750	0.000000	0.000
	15 RAW-FRESH OR CANNED					0.00750	0.000000	0.000
	21 COOKED-NFS					0.00750	0.000007	0.004
	31 COOKED-FRESH OR CANNED					0.00750	0.000039	0.020
02006AA	ORANGES-UNSPECIFIED	0.750	P	0.000000	0.000	0.00750	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)							

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phosphamidon Caswell #661 CAS No. 13171-21-6 A.I. CODE: 018201 CFR No. 180.239	2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 1.5000 mg/kg 30.00 ppm ONCO: Pending NOTE.	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	PRADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000000	Chronic feeding- dog Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	HED complete 7/31/87. EPA not scheduled. WHO last reviewed 1986.

COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
02006AB	ORANGES-PULP 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.750	P	0.029229	14.615	0.00750 0.00750	0.000272 0.000021	0.136 0.011
02006HA	ORANGES-PEEL 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	0.750	P	0.000044	0.022	0.00750 0.00750 0.00750	0.000000 0.000000 0.000000	0.000 0.000 0.000
02006JA	ORANGES-JUICE 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED	0.750	P	3.567067	1783.534	0.00750 0.00750	0.018627 0.017043	9.314 8.522
02008AA	TANGERINES 10 RAW-FRESH OR NFS	0.750	P	0.001731	0.866	0.75000	0.001731	0.866
02008JA	TANGERINE-JUICE 15 RAW-FRESH OR CANNED	0.750	P	0.000000	0.000	0.75000	0.000000	0.000
CROP GROUP TOTALS FOR CITRUS FRUITS:					3.777804	1888.902	0.039491	19.746

04001AA	APPLES-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 62 COOKED-FRESH OR FROZEN-BAKED	1.000	P	2.853996	1426.998	0.07000 0.07000 0.07000 0.07000	0.003966 0.015528 0.179452 0.000834	1.983 7.764 89.726 0.417
04001DA	APPLES-DRIED 10 RAW-FRESH OR NFS 22 COOKED-FRESH-BAKED 62 COOKED-FRESH OR FROZEN-BAKED	1.000	P	0.000000	0.000	0.07000 0.07000 0.07000	0.000000 0.000000 0.000000	0.000 0.000 0.000
04001JA	APPLES-JUICE 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED	1.000	P	5.196313	2598.157	0.07000 0.07000	0.119939 0.243803	59.970 121.902
CROP GROUP TOTALS FOR POME FRUITS:					8.050309	4025.155	0.563522	281.761

03009AA	WALNUTS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	0.100	P	0.000291	0.146	0.00400 0.00400 0.00400	0.000000 0.000000 0.000012	0.000 0.000 0.006
CROP GROUP TOTALS FOR TREE NUTS:					0.000291	0.146	0.000012	0.006

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CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phosphamidon Caswell #661 CAS No. 13171-21-6 A.I. CODE: 018201 CFR No. 180.239	2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm IEL= 1.5000 mg/kg 30.00 ppm ONCO: Pending WOTE.	Inhibition of serum and brain ChE activity, de- generation/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	PADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000000	Chronic feeding- dog Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	HED complete 7/31/87. EPA not scheduled. WHO last reviewed 1986.	

COMMODITY CONTRIBUTION BY RAC FOR: NON-NURSING INFANTS (< 1 YEAR OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	\$RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	\$RFD
08048DA	PAPRIKA OO NOT SPECIFIED (NO CONSUMPTION)	0.500	P	0.000000	0.000	0.50000	0.000000	0.000
CROP GROUP TOTALS FOR HERBS AND SPICES:					0.000000	0.000	0.000000	0.000

GRAND TOTALS FOR NON-NURSING INFANTS (< 1 YEAR OLD)

13.060443 6530.222 0.720154 360.077

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

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phosphamidon	2yr feeding- rat	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	PADI UF -->300	Chronic feeding- dog	HED complete 7/31/87.	
Caswell #661	NOEL= 0.0500 mg/kg		OPP RfD= 0.000200	Mouse oncogenicity	EPA not scheduled.	
CAS No. 13171-21-6	1.00 ppm		EPA RfD= 0.000000	Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	WHO last reviewed 1986.	
A.I. CODE: 018201	LEL= 1.5000 mg/kg					
CFR No. 180.239	30.00 ppm					
	ONCO: Pending MOTE.					

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	\$RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	\$RFD
08020AA	HOPS	45.000	N	0.000963	0.482	45.00000	0.000963	0.482
	21 COOKED-NFS							
25003SA	CANE SUGAR	0.100	P	0.181305	90.653	0.10000	0.016281	8.141
	10 RAW-FRESH OR NFS					0.10000	0.040268	20.134
	21 COOKED-NFS					0.10000	0.034139	17.070
	22 COOKED-FRESH-BAKED					0.10000	0.090617	45.309
	31 COOKED-FRESH OR CANNED							
25003SB	SUGAR-MOLASSES	0.100	P	0.002345	1.173	0.10000	0.000000	0.000
	10 RAW-FRESH OR NFS					0.10000	0.000640	0.320
	21 COOKED-NFS					0.10000	0.001232	0.616
	22 COOKED-FRESH-BAKED					0.10000	0.000473	0.237
	31 COOKED-FRESH OR CANNED							
270030A	COTTONSEED-OIL	0.100	P	0.003636	1.818	0.00100	0.000036	0.018
	18 PROCESSED OIL							
270030A	COTTONSEED-MEAL	0.100	P	0.000051	0.026	0.00100	0.000001	0.001
	18 PROCESSED OIL							
CROP GROUP TOTALS FOR UNSPECIFIED:					94.150	0.188300	0.184650	92.325
14013AA	POTATOES(WHITE)-WHOLE	0.100	P	0.057998	28.999	0.00300	0.000239	0.120
	10 RAW-FRESH OR NFS					0.00300	0.000781	0.391
	21 COOKED-NFS					0.00300	0.000720	0.360
14013AB	POTATOES(WHITE)-UNSPECIFIED	0.100	P	0.000019	0.010	0.00300	0.000001	0.001
	22 COOKED-FRESH-BAKED					0.00300	0.000464	0.232
14013AC	POTATOES(WHITE)-PEELED	0.100	P	0.164854	82.427	0.00300	0.000234	0.117
	21 COOKED-NFS					0.00300	0.002608	1.304
	22 COOKED-FRESH-BAKED					0.00300	0.001640	0.820
14013DA	POTATOES(WHITE)-DRY	0.100	P	0.002212	1.106	0.00300	0.000035	0.018
	10 RAW-FRESH OR NFS					0.00300	0.000032	0.016
14013HA	POTATOES(WHITE)-PEEL ONLY	0.100	P	0.000000	0.000	0.00300	0.000000	0.000
	31 COOKED-FRESH OR CANNED							
	22 COOKED-FRESH-BAKED							
CROP GROUP TOTALS FOR ROOT AND TUBER VEGETABLES:					112.542	0.225083	0.006754	3.377

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CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
Phosphamidon	Caswell #661	2yr feeding- rat	Inhibition of serum and brain ChE activity, de-generation/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	IPADI UF -->300	Chronic feeding- dog	HED complete 7/31/87.				
	CAS No. 13171-21-6	NOEL= 0.0500 mg/kg		OPP RfD= 0.000200	Mouse oncogenicity	EPA not scheduled.				
	A.I. CODE: 018201	1.00 ppm		EPA RfD= 0.000000	Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	WHO last reviewed 1986.				
	CFR No. 180.239	LEL= 1.5000 mg/kg								
		30.00 ppm								
		ONCO: Pending NOTE.								

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)		TMRC TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)		%RFD	
		PPM	P				(PPM)	ARC (UG/KG/DAY)		
13005AA	BROCCOLI	0.500	P	0.034171	17.086		0.01250	0.000054	0.027	
	21 COOKED-NFS						0.01250	0.000705	0.353	
	31 COOKED-FRESH OR CANNED						0.01250	0.000095	0.048	
13008AA	CAULIFLOWER	0.500	P	0.008445	4.223		0.03000	0.000058	0.029	
	10 RAW-FRESH OR NFS						0.03000	0.000449	0.225	
	21 COOKED-NFS									
CROP GROUP TOTALS FOR BRASSICA (COLE) LEAFY VEGETABLES:										
		0.042616		21.308			0.001361		0.681	

11003AA	PEPPERS, SWEET GARDEN	0.500	P	0.017108	8.554		0.00500	0.000047	0.024
	10 RAW-FRESH OR NFS						0.00500	0.000124	0.062
	21 COOKED-NFS								
11003AB	CHILI PEPPERS	0.500	P	0.000000	0.000		0.00500	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)						0.00500	0.000001	0.001
	10 RAW-FRESH OR NFS						0.00500	0.000025	0.013
	21 COOKED-NFS						0.00500	0.000001	0.001
	51 COOKED-CANNED								
11004AA	PIMIENTOS	0.500	P	0.001474	0.737		0.50000	0.000433	0.217
	10 RAW-FRESH OR NFS						0.50000	0.000663	0.332
	21 COOKED-NFS						0.50000	0.000379	0.190
11005AA	TOMATOES-WHOLE	1.000	P	0.800248	400.124		0.02500	0.005838	2.919
	31 COOKED-FRESH OR CANNED						0.02500	0.010947	5.474
	10 RAW-FRESH OR NFS						0.02500	0.003221	1.611
	21 COOKED-NFS								
11005JA	TOMATOES-JUICE	1.000	P	0.059447	29.724		0.02500	0.000000	0.000
	31 COOKED-FRESH OR CANNED						0.02500	0.001486	0.743
	10 RAW-FRESH OR NFS								
	21 COOKED-NFS								
11005RA	TOMATOES-PUREE	1.000	P	1.144825	572.413		0.02500	0.000009	0.005
	10 RAW-FRESH OR NFS						0.02500	0.014514	7.257
	21 COOKED-NFS						0.02500	0.003600	1.800
	31 COOKED-FRESH OR CANNED						0.02500	0.002904	1.452
	32 COOKED-FRESH OR CANNED-BAKED						0.02500	0.007594	3.797
	51 COOKED-CANNED								
11005TA	TOMATOES-PASTE	1.000	P	0.530855	265.428		0.02500	0.009924	4.962
	21 COOKED-NFS						0.02500	0.000911	0.456
	22 COOKED-FRESH-BAKED						0.02500	0.002436	1.218
	31 COOKED-FRESH OR CANNED								
11005UA	TOMATOES-CATSUP	1.000	P	0.273173	136.587		0.02500	0.006829	3.415
	21 COOKED-NFS								

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phosphamidon Caswell #661 CAS No. 13171-21-6 A.I. CODE: 018201 CFR No. 180.239	2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 1.5000 mg/kg 30.00 ppm ONCO: Pending NOTE.	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	PADI UF -->300 OPP RfD= 0.000200 EPA RfD= 0.000000	Chronic feeding- dog Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	HED complete 7/31/87. EPA not scheduled. WHO last reviewed 1986.

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
CROP GROUP TOTALS FOR FRUITING VEGETABLES (EXCL. CUCURBITS):								
				2.829823	1414.912		0.071886	35.943
10002AA	CANTALOUPE-UNSPECIFIED 00 NOT SPECIFIED (NO CONSUMPTION)	0.250	P	0.000000	0.000	0.25000	0.000000	0.000
10002AB	CANTALOUPE-PULP 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.250	P	0.010166	5.083	0.25000	0.010166 0.000000	5.083 0.000
10008AA	WATERMELON 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.250	P	0.035153	17.577	0.00250	0.000351 0.000000	0.176 0.000
10010AA	CUCUMBERS 10 RAW-FRESH OR NFS 11 RAW-FRESH-PICKLED,CORNED,OR CURED 21 COOKED-NFS	0.500	P	0.050179	25.090	0.00500 0.00500 0.00500	0.000242 0.000244 0.000016	0.121 0.122 0.008
CROP GROUP TOTALS FOR FRUITING VEGETABLES (CUCURBITS):								
				0.095498	47.749		0.011019	5.510

02002AA	GRAPEFRUIT-UNSPECIFIED 00 NOT SPECIFIED (NO CONSUMPTION)	0.750	P	0.000000	0.000	0.00750	0.000000	0.000
02002AB	GRAPEFRUIT-PULP 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.750	P	0.032740	16.370	0.00750 0.00750	0.000327 0.000000	0.164 0.000
02002JA	GRAPEFRUIT-JUICE 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED	0.750	P	0.105248	52.624	0.00750 0.00750	0.000927 0.000125	0.464 0.063
02004AA	LEMONS-UNSPECIFIED 10 RAW-FRESH OR NFS 22 COOKED-FRESH-BAKED	0.750	P	0.002955	1.478	0.00750	0.000027 0.000002	0.014 0.001
02004AB	LEMONS-PULP 10 RAW-FRESH OR NFS 31 COOKED-FRESH OR CANNED	0.750	P	0.000117	0.059	0.00750 0.00750	0.000000 0.000001	0.000 0.001
02004HA	LEMONS-PEEL 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.750	P	0.000031	0.016	0.00825 0.00750	0.000000 0.000000	0.000 0.000
02004JA	LEMONS-JUICE 10 RAW-FRESH OR NFS 15 RAW-FRESH OR CANNED 21 COOKED-NFS 31 COOKED-FRESH OR CANNED	0.750	P	0.036834	18.417	0.00750 0.00750 0.00750 0.00750	0.000063 0.000026 0.000112 0.000167	0.032 0.013 0.056 0.084
02006AA	ORANGES-UNSPECIFIED 00 NOT SPECIFIED (NO CONSUMPTION)	0.750	P	0.000000	0.000	0.00750	0.000000	0.000

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			PADI	UF		
Phosphamidon Caswell #661 CAS No. 13171-21-6 A.I. CODE: 018201 CFR No. 180.239	2yr feeding- rat NOEL= 0.0500 mg/kg 1.00 ppm LEL= 1.5000 mg/kg 30.00 ppm ONCO: Pending WOTE.	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	OPR RfD= 0.000200 EPA RfD= 0.000000	300	Chronic feeding- dog Mouse oncogenicity Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	HED complete 7/31/87. EPA not scheduled. WHO last reviewed 1986.

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	\$RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	\$RFD
02006AB	ORANGES-PULP 10 RAW-FRESH OR NFS 21 COOKED-NFS	0.750	P	0.285150	142.575	0.00750	0.002851	1.426
02006HA	ORANGES-PEEL 21 COOKED-NFS 22 COOKED-FRESH-BAKED 31 COOKED-FRESH OR CANNED	0.750	P	0.000260	0.130	0.00750	0.000001	0.001
02006JA	ORANGES-JUICE 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED	0.750	P	4.434990	2217.495	0.00750	0.042776	21.388
02008AA	TANGERINES 10 RAW-FRESH OR NFS	0.750	P	0.016899	8.450	0.00750	0.001574	0.787
02008JA	TANGERINE-JUICE 15 RAW-FRESH OR CANNED	0.750	P	0.000000	0.000	0.75000	0.016899	8.450
CROP GROUP TOTALS FOR CITRUS FRUITS:					4.915224	2457.612	0.065880	32.940

04001AA	APPLES-FRESH 10 RAW-FRESH OR NFS 21 COOKED-NFS 31 COOKED-FRESH OR CANNED 62 COOKED-FRESH OR FROZEN-BAKED	1.000	P	1.227712	613.856	0.07000	0.061163	30.582
04001DA	APPLES-DRIED 10 RAW-FRESH OR NFS 22 COOKED-FRESH-BAKED 62 COOKED-FRESH OR FROZEN-BAKED	1.000	P	0.002728	1.364	0.07000	0.000517	0.259
04001JA	APPLES-JUICE 15 RAW-FRESH OR CANNED 31 COOKED-FRESH OR CANNED	1.000	P	1.491005	745.503	0.07000	0.022333	11.167
CROP GROUP TOTALS FOR POME FRUITS:					2.721445	1360.723	0.07000	0.001926
							0.000169	0.085
							0.000000	0.000
							0.000022	0.011
							0.092374	46.187
							0.011996	5.998
CROP GROUP TOTALS FOR POME FRUITS:					2.721445	1360.723	0.190500	95.250

03009AA	WALNUTS 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED	0.100	P	0.001334	0.667	0.00400	0.000007	0.004
CROP GROUP TOTALS FOR TREE NUTS:					0.001334	0.667	0.00400	0.000000
							0.000046	0.023
							0.000053	0.027

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TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Phosphamidon	2yr feeding- rat	Inhibition of serum and brain ChE activity, degeneration/necrosis of hepatocytes. Evidence of oncogenicity in rats (bladder), no mouse data.	PADI UF -->300	Chronic feeding- dog	HED complete 7/31/87.	
Caswell #661	NOEL= 0.0500 mg/kg		OPP RfD= 0.000200	Mouse oncogenicity	EPA not scheduled.	
CAS No. 13171-21-6	1.00 ppm		EPA RfD= 0.000000	Extra UF of 3 used due to lack of firm NOEL for brain ChE in rat, lack of dog study.	WHO last reviewed 1986.	
A.I. CODE: 018201	LEL= 1.5000 mg/kg					
CFR No. 180.239	30.00 ppm					
	ONCO: Pending WOTE.					

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE (UG/KG/DAY)	TWRC (UG/KG/DAY)	\$RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	\$RFD
08048DA	PAPRIKA	0.500	P	0.000000	0.000	0.50000	0.000000	0.000
	00 NOT SPECIFIED (NO CONSUMPTION)				0.000			0.000
CROP GROUP TOTALS FOR HERBS AND SPICES:						0.000000	0.000000	0.000

GRAND TOTALS FOR CHILDREN (1-6 YEARS OLD)

11.019323 5509.662 0.532103 266.052

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