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OPP OFFICIAL RECORD
HEALTH EFFECTS DIVISION
SCIENTIFIC DATA REVIEWS
EPA SERIES 361
M E M O R A N D U M

FILE
(9)

TO: Al Nielsen EPA/OPP/OREB

cc: 2110.003 File

FROM: Jeff Dawson *JW*

Tim Leighton

DATE: 10/5/93

Jeff Evans

Larry Dorsey

SUBJECT: Test Case REI/Risk Analysis using Chlorothalonil Tomato Harvester Study

Pursuant to your request, a reentry interval and risk analysis has been completed on the chlorothalonil human exposure and concurrent FDR/whole tomato residue data (i.e., *A Tomato Harvester Exposure Study with Chlorothalonil - 1984*). To summarize, kinetics, exposure, and risk analyses were completed and transfer coefficients were calculated. Residue levels were not corrected for laboratory recovery as all reported mean values were >90 percent and the origins of the quality control samples were not easily identifiable. [Note: No field recovery samples were generated in this study.]

The kinetics analyses involved linear regressions of the data (i.e., FDR or Whole Tomato Levels vs. Sample Interval) as supplied and in a semilog transformation of the residue levels. Additionally, half-life values were also calculated using pseudo-first order reaction kinetics and equations for each scenario were generated using the simple linear equation $y = mx + b$. Generally, the correlation coefficients were approximately the same for either set of regressions (i.e., linear or semilog). These values are summarized below:

Correlation Coefficient Summary

Data Type	Linear Analysis	Semilog Analysis
FDR	0.96689	0.97335
Whole Tomato	0.81281	0.81201

Half-life values (PAI-Days) were also calculated and are summarized in similar fashion:

Half-Life Values (Residue vs. PAI-Days)

Data Type	Linear Analysis	Semilog Analysis
FDR	4.27	15.26
Whole Tomato	32.27	17.34

There was little dissipation over the study interval and, based on the values presented above, there seems to be good correlation between the chlorothalonil residue levels and the sample collection intervals. In fact, the lower and upper limits of the 95 percent confidence interval were calculated for each type of data to further demonstrate this fact. All kinetics analyses which were completed are included as Attachment A.

Normalized exposure levels were calculated based on two distinct sets of factors (i.e., the hours worked and the productivity or pounds picked). Initially, working tables were developed which adjusted the reported dermal exposure levels on a per patch basis up to the levels representing an entire body area much as though PHED calculates exposure levels (e.g., for the chest: multiply patch residue (ug) by the chest surface area (3550 cm²) and divide by the patch sample area (68.15 cm²)). [Note: These working tables are included in Attachment B and they may be difficult to understand without further explanation; these tables were essentially provided for informational purposes only. Additionally, the tables also included the calculation of the normalized exposure levels.] All calculations were completed using standard scenarios including all "non-detect" levels were considered as 1/2 of the detection limit for that particular sample matrix. Generally, the majority (@ 90% or greater) of exposure for all scenarios was attributable to hand exposure. For this reason "Total/Inside" exposure levels were not adjusted to account for the entire body surface area exposures (e.g., no protection factor was used to estimate exposure levels where no dermal dosimeter was worn under the coveralls such as the forearms/thighs and exposure levels were not calculated on a universal basis using data from specific body parts). Inhalation exposure, as expected, was minimal. All exposure values are presented in the summary sheet included in Attachment B and the mean values for each scenario are summarized below:

Normalized Exposure Levels

PAI (Days)	Dosimeter/Exposure Type	Exposure (ug/hr worked)	Exposure (ug/lb picked)
0	Total/Outside Total/Inside	42712 39032	152.50 138.86
1	Total/Outside Total/Inside	46770 41487	126.48 111.58
3	Total/Outside Total/Inside	33689 29362	118.53 102.99
7	Total/Outside Total/Inside	34805 31604	120.82 109.53

*Total/Outside represents exposure calculated based on the nonprotected dermal dosimeters worn on the exterior of the coveralls (i.e., chest, back, shoulder, upper arm, forearm, thigh & ankle), the nonprotected gloves, and inhalation.

*Total/Inside represents exposure calculated based on the protected dermal dosimeters worn underneath the coveralls (i.e., ankles, chest & back), the nonprotected gloves (exterior protective gloves not required by label), and inhalation.

Transfer coefficients based on the actual study data were calculated (Attachment C) using exposures which were normalized on (1) the duration of the exposure interval (i.e., average values = 10688 cm²/hour for total deposition and 9561 cm²/hour for a normal work clothing scenario), and (2) the worker's productivity (i.e., average values = 164.5 lb picked/hr for total deposition and 147.0 lb picked/hr for a normal work clothing scenario). These values were calculated using the following equations:

FDR(Normalization by Hours Worked): Exposure(ng/hour)/FDR Level (ng/cm²)
 FDR(Normalization by lbs Tomatoes Picked): [Exposure(ng/lb picked)*Tomato Picking Rate(lb/hour)/FDR(ng/cm²)]
 Whole Tomatoes(Normalization by Hours Worked): [(Exposure(ng/hour)/Tomato Residue(ppm))/(1lb/454g)]
 Whole Tomatoes(Normalization by Pounds Tomatoes Picked): [(Exposure(ng/lb)*Tomato Picking Rate(lb/hour)/Tomato Residue (ppm))*(1lb/454g)]

[Note: A standard tomato picking rate was defined based on the actual study field data/observations (i.e., 307 lb/hour).]

In addition to the transfer coefficients described above, linear equations were developed which related FDR or Whole Tomato residue levels to exposure levels (**Attachment C**). It should be noted that there was better correlation between the whole tomato residue levels and exposure than the corresponding FDR levels and exposure. [Note: Technical issues exist which must be clarified concerning the tomato extraction procedures—see separate study review memo when released.] Additionally, using predicted FDR and Whole Tomato residue levels up to 35 days post-application (**See Attachment A**) and the linear residue level/exposure equations predicted exposure levels were calculated for upto 35 days post-application (equations included as part of **Attachment C**). Exposure levels declined as expected over time along with the residue levels. A comparison of the two techniques (i.e., transfer coefficients or predictive linear equations) for estimating exposure levels from environmental residue data was also completed as part of this effort. The two techniques did not significantly diverge (i.e., calculated exposures did not differ by greater than an average of 20%) until approximately 23 days post-application.

Lifetime Average Daily Exposure (LADEs) were calculated for a variety of scenarios using the following equation:

$$\text{LADE (mg/day)} = [\text{Exposure/Event (mg/workday)}] * [\text{Annual Exposure (days)/365 (days)}] * [\text{Work Interval (yrs)}/\text{Avg. Lifetime (yrs)}]$$

Where:

$$[\text{Exposure/Event (mg/workday)}] = [\text{Exposure (mg/hour)} * \text{Daily Hours}] \text{ or } [\text{Exposure (mg/lb picked)} * \text{Tomato Picking Rate (lb/hr)} * \text{Daily Hours}]$$

The actual exposure levels over the course of study (i.e., mg/workday) which served as the basis for the LADE calculations ranged from approximately 270 to 374 mg/workday for total deposition and from approximately 235 to 340 mg/workday for the work clothing scenario. For the predicted values, daily exposure values ranged from a low of approximately 0.15 mg/day at 35 days to a high level of 313 mg/workday at 0 days after application. Predicted exposure levels varied slightly depending upon the way they were calculated. More significant differences were noted as the post-application time interval increased (i.e., the correlation of the exposure levels with time decreased).

Each of the LADE exposure scenarios used for these calculations are summarized below:

LADE Exposure Scenario Summary

Parameter	Range
Daily Work Interval (Hours)	8
Annual Exposure (Days)	15, 30, 45, 60
Total Work Interval (Years)	10, 20, 30
Tomato Picking Rate (lb/hour)	307
Average Lifetime (Years)	70

In addition to the LADE calculations described above, risk levels were calculated for each LADE scenario using the following equation:

$$\text{Risk} = [\text{LADE (mg/day)} * \text{Q1}^* (\text{mg/kg/day}^{-1}) * (\text{Dermal Absorption Factor (\%)/100})]/(\text{Body Weight (kg)})$$

The toxicological parameters used for these calculations are presented below:

Description	Parameter
Q1* (mg/kg/day^{-1})	0.011
Average Body Weight (kg)	70
Dermal Absorption Factors (%)	1, 5, 10, 20, 50, 100

LADE and the corresponding risk values were calculated for each exposure/risk scenario described above using both actual and predicted exposure values. Based on the actual exposure data, LADEs were on the order of 1 to 30 mg/day (i.e., 0, 1, 3, & 7 days post-application only) while risks were in the 10^{-6} (i.e., only for a dermal absorption factor of 1%) to 10^{-4} range (Attachment D). Based on predicted exposure levels (i.e., linear regressions of FDR/time & FDR/exposure up to 35 days post-application -- see Attachments A & C), LADEs were on the order of 0.1 to 22 mg/day while risks ranged from 10^{-7} to 10^{-3} (Attachment E).

Any regulatory decisions made using this Risk/REI analysis should also account for the inadequacies described in the review memo about to be released for this study. Also note that the level of effort for this analysis may not be typical of such future analyses as chlorothalonil is a test case chemical for the development, evaluation, and validation of methodologies for post-application exposure data (i.e., Subdivision K Data Treatments--see June 6, 1993 memo *Objectives for the Development of Standard Analysis Procedures for both Subdivision K and Subdivision U data based on June 16 meeting between Jeff Evans, Tim Leighton, and Jeff Dawson*). Should you have any questions please do not hesitate to call me at 703-750-3000.

Enclosures:

Attachments A through E

ATTACHMENT A

KINETICS ANALYSIS

PPA SUPPORT TASK:1627.8

VERSAR, INC. 8/30/93 JLD

REVIEW OF CHLOROTHALONIL FOLIAR DISLODGEABLE/TOMATO RESIDUE DISSIPATION STUDY AND REI CALCULATION

DISSIPATION KINETICS CALCULATIONS:PSEUDO 1st ORDER ANALYSIS

STUDY DAY	RESIDUE LEVELS		Ln [RESIDUE LEVELS]	
	FDR (ug/cm ²)	TOMATOES (ppm)	FDR (ug/cm ²)	TOMATOES (ppm)
0.00	4.300	0.630	1.4586	-0.4620
1.00	3.830	0.570	1.3420	-0.5521
3.00	3.750	0.460	1.3218	-0.7785
7.00	3.040	0.470	1.1119	-0.7550
LINEAR REGRESSION (LIN/LIN)		LINEAR REGRESSION (SEMILOG)		
FDR LEVELS				
Regression Output:		Regression Output:		
Constant	4.17670280632	Constant	1.43363699009	
Std Err of Y Est	0.16253241394	Std Err of Y Est	0.04055863488	
R Squared	0.9348859118	R Squared	0.94740967567	
No. of Observations	4	No. of Observations	4	
Degrees of Freedom	2	Degrees of Freedom	2	
Correlation Coefficient	0.98689498489	Correlation Coefficient	0.9733497191	
X Coefficient(s)	-0.162435907	X Coefficient(s)	-0.04540457	
Std Err of Coef.	0.0303127414	Std Err of Coef.	0.007584297	
WHOLE TOMATO LEVELS				
Regression Output:		Regression Output:		
Constant	0.59156595167	Constant	-0.5290520017	
Std Err of Y Est	0.05838239808	Std Err of Y Est	0.10887984348	
R Squared	0.68065559059	R Squared	0.65936291125	
No. of Observations	4	No. of Observations	4	
Degrees of Freedom	2	Degrees of Freedom	2	
Correlation Coefficient	0.81280722843	Correlation Coefficient	0.81201184479	
X Coefficient(s)	-0.021478333	X Coefficient(s)	-0.03995398	
Std Err of Coef.	0.0108847475	Std Err of Coef.	0.020306203	
HALF LIFE:DAYS (LIN/LIN)		HALF LIFE:DAYS (LIN/Ln)		
FDR	WHOLE TOMATOES	FDR	WHOLE TOMATOES	
4.27	32.27	15.26	17.34	
LINEAR EQUATIONS BASED ON SEMILOG ANALYSIS OF DISSIPATION DATA				
CHLOROTHALONIL (FDR):	$[CHLOROTHALONIL (UG/CM^2)] = e^{((PAI (DAYS)) * (-0.045405)) + (1.43363699)}$			
CHLOROTHALONIL (TOMATO):	$[CHLOROTHALONIL (PPM)] = e^{((PAI (DAYS)) * (-0.039954)) + (-0.529052)}$			

NOTES:

- * ALL VALUES USED FOR CALCULATIONS ARE AVERAGES OF REPPLICATE SAMPLE ANALYSES AT EACH INTERVAL.
- * HALF LIVES CALCULATED USING PSEUDO 1st ORDER REACTION KINETICS MODEL $t_{1/2} = 0.693/K_a$ WHERE $K_a = X$ COEFFICIENT.
- * ALL RESIDUE VALUES ARE AVERAGE LEVELS FOR EACH SAMPLE COLLECTION INTERVAL.
- * RESIDUE LEVELS NOT CORRECTED FOR AVAILABLE QC RESULTS AS ALL AVERAGE RECOVERIES WERE $\geq 90\%$.
- * PAI = POST APPLICATION INTERVAL.

PPA SUPPORT TASK: 2110.003

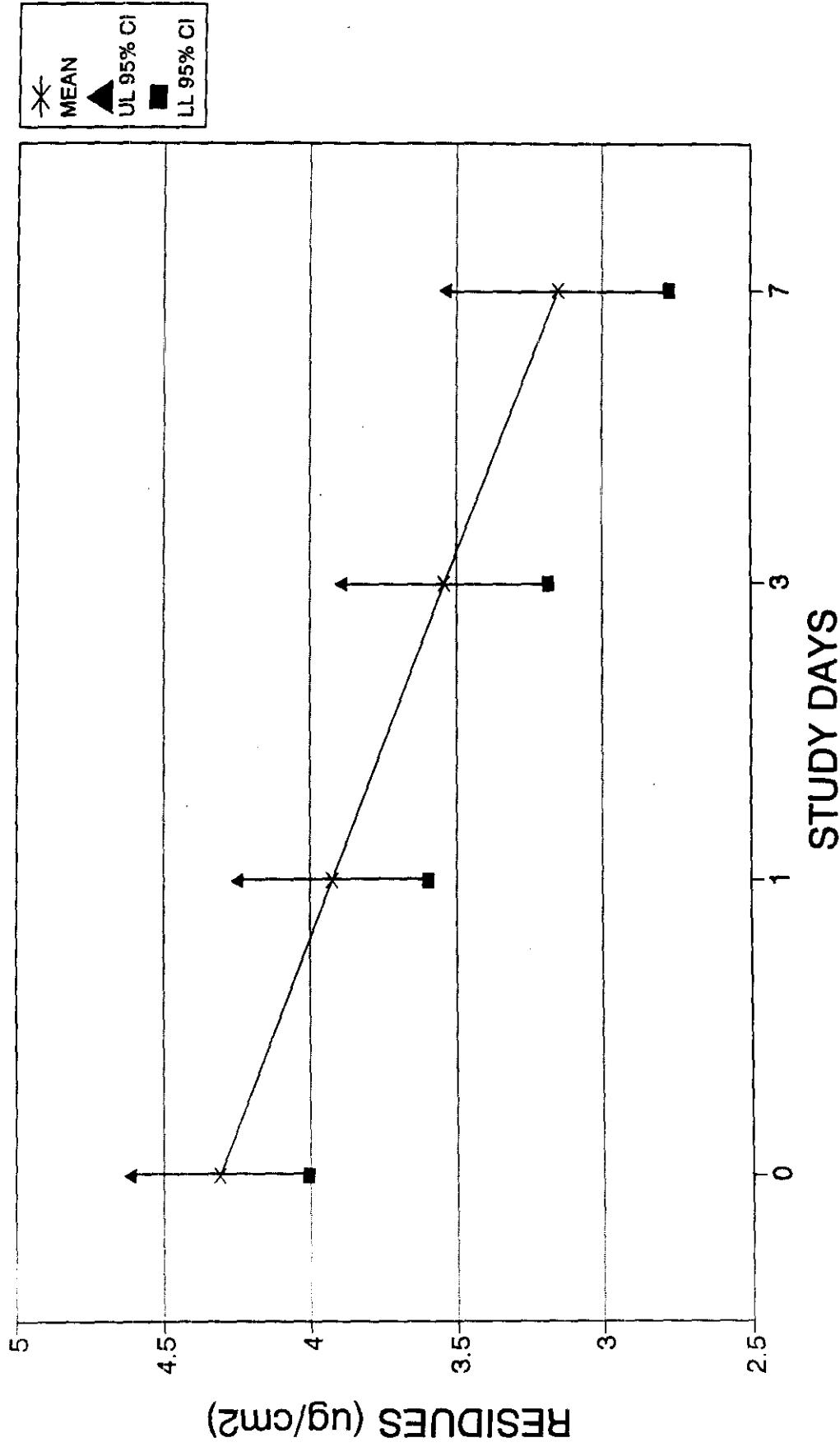
VERSAR, INC. 9/10/93 JLD

ANALYSIS OF AVAILABLE TOMATO RESIDUE AND FDR DISSIPATION DATA

REPLICATE NUMBER	TOMATO RESIDUE LEVELS (ppm)			
	DAY 0	DAY 1	DAY 3	DAY 7
1	0.500	0.450	0.410	0.800
2	0.720	0.560	0.550	0.340
3	0.700	0.900	0.360	0.250
4	0.390	0.400	0.700	0.510
5	0.430	0.570	0.400	0.540
6	0.680	0.390	0.130	0.390
7	0.450	0.820	0.660	0.570
8	0.980	0.390	0.890	0.470
9	0.480	0.650	0.220	0.240
10	0.980	0.570	0.290	0.570
STD DEV	0.204	0.169	0.224	0.161
CV (%)	32.437	29.669	48.606	34.451
MEAN	0.629	0.570	0.461	0.468
UL 95% CI	0.755	0.675	0.600	0.568
LL 95% CI	0.503	0.465	0.322	0.368

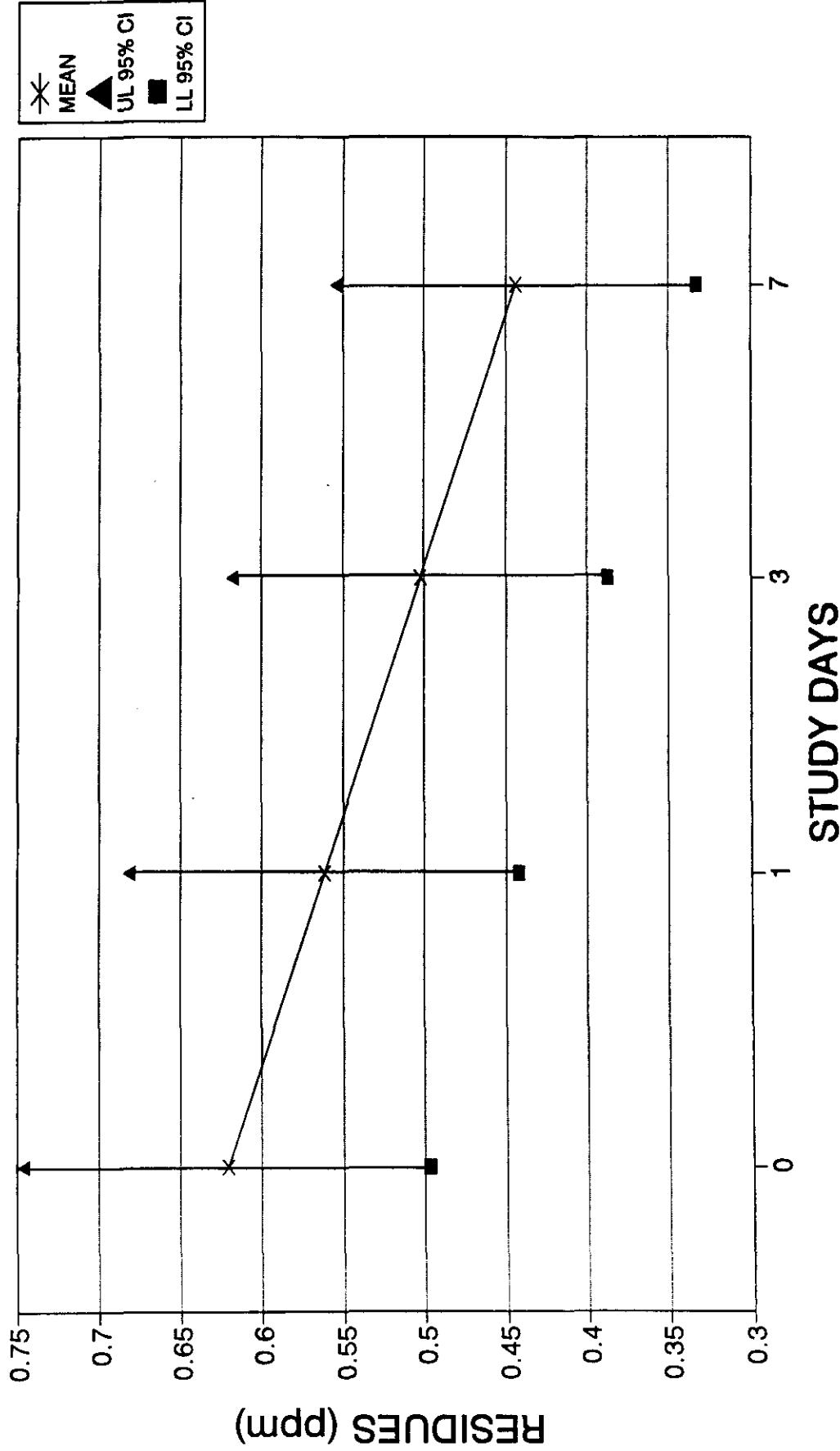
REPLICATE NUMBER	FDR LEVELS (ug/cm ²)			
	DAY 0	DAY 1	DAY 3	DAY 7
1	4.87	2.50	2.68	3.22
2	3.91	2.34	3.77	2.23
3	4.36	2.60	3.80	3.47
4	4.47	2.37	3.76	2.56
5	4.42	4.51	3.74	2.76
6	4.34	3.31	3.08	2.52
7	3.65	3.18	4.10	2.86
8	4.17	4.56	4.02	3.17
9	4.03	2.95	4.13	2.08
10	5.01	4.03	3.20	3.35
11	3.98	2.64	2.44	1.92
12	5.27	4.64	3.89	3.04
13	3.77	5.46	6.47	4.80
14	3.73	3.33	2.46	2.77
15	3.55	4.83	3.70	2.76
16	4.48	5.56	5.29	4.31
17	4.97	4.30	4.53	3.09
18	4.17	4.27	2.82	2.79
19	4.61	4.56	3.87	2.95
20	4.22	4.74	3.51	4.17
STD DEV	0.47	1.02	0.92	0.71
CV (%)	10.85	26.65	24.52	23.24
MEAN	4.30	3.83	3.75	3.04
UL 95% CI	4.50	4.28	4.16	3.35
LL 95% CI	4.09	3.39	3.35	2.73

CHLOROTHALONIL TOMATO/FDR FDR DATA



CHLOROTHALONIL TOMATO/FDR

WHOLE TOMATO DATA



ATTACHMENT B

EXPOSURE CALCULATIONS

PPA SUPPORT TASK-1627-8
VERBAN INC. 912453-JD
CHLOROTHALONIUM FOR REENTRY EXPOSURE STUDY -- SUMMARY OF NORMALIZED EXPOSURE LEVELS

PAI (DAYS)	DOSE METER TYPE	EXPOSURE (ug/hour worked)										EXPOSURE (ug/hour worked)												
		REPLICATE #					REPLICATE #					REPLICATE #					REPLICATE #							
		1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	MEAN		
0	OUTSIDE	36854	31255	36580	33942	45305	50204	45001	47707	57128	40308	42700	167.91	116.21	152.50	105.88	143.98	156.33	180.48	175.50	137.72	152.45		
	INSIDE	53.3	53.1	54.5	67.3	54.3	60	54.8	76.0	55.4	61.9	0.24	0.20	0.22	0.21	0.22	0.23	0.24	0.21	0.23	0.19	0.22		
	HAND	31411	27740	35114	26052	39763	47124	43105	54745	43105	36858	36857	143.11	103.20	136.87	90.48	162.84	156.08	149.86	163.42	168.18	131.36	136.80	
	INHALATION	0.70	11.75	11.69	15.52	22.52	9.48	9.26	14.34	14.31	9.17	12.80	0.04	0.04	0.05	0.05	0.06	0.06	0.05	0.04	0.03	0.05		
TOTAL OUTSIDE	36864	31247	38572	35195	45327	50213	45761	47722	57142	40376	42712	171.98	116.28	152.93	105.73	143.92	156.38	180.53	175.52	137.73	132.50			
	TOTAL INSIDE	31474	27805	35195	29134	36840	47215	42895	43284	54835	36854	36852	143.46	108.44	136.18	90.71	162.95	156.52	149.72	163.86	168.46	131.90	136.86	
1	OUTSIDE	50217	44712	35925	45985	41348	42073	43838	75844	47837	40753	168.97	108.80	138.70	95.80	136.51	102.58	126.57	120.80	153.08	113.86	128.44		
	INSIDE	53.1	50.8	58.3	74.3	39.7	86.2	85.2	118.7	80.9	82.4	0.18	0.06	0.18	0.20	0.12	0.17	0.20	0.20	0.33	0.13	0.17		
	HAND	43707	39247	35982	30050	41149	39000	38100	37944	60055	44035	41403	145.32	102.06	104.17	101.17	129.04	80.55	114.84	102.80	145.40	105.82	111.36	
	INHALATION	13.50	12.11	14.86	18.83	23.98	14.83	21.31	22.64	13.88	12.04	18.48	0.04	0.03	0.05	0.05	0.06	0.04	0.06	0.05	0.03	0.05		
TOTAL OUTSIDE	50230	44725	44727	35544	45006	41383	42084	43284	75355	47843	40770	171.01	108.83	138.74	95.86	136.57	123.81	126.83	120.86	153.11	113.86	128.46		
	TOTAL INSIDE	43774	36290	34855	30153	41510	36178	36215	37485	86930	44081	41467	145.84	102.20	104.40	91.32	125.22	88.75	102.86	102.86	145.86	105.83	111.36	
3	OUTSIDE	41102	29884	23242	29225	34605	51500	33042	20187	36299	29530	33072	175.02	83.86	123.23	102.73	126.13	98.80	141.37	110.52	116.75	98.32	116.47	
	INSIDE	30.5	30.9	51.0	65.7	56.2	59.0	78.5	100.5	50.7	54.0	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10		
	HAND	31769	27295	20247	24061	30230	28557	29187	24868	24868	29794	29291	140.06	85.71	104.40	67.39	106.80	90.11	121.49	94.27	106.86	87.36	102.74	
	INHALATION	12.17	10.54	27.84	15.76	17.31	12.23	21.70	21.51	22.21	8.32	19.77	0.09	0.10	0.10	0.08	0.08	0.04	0.06	0.07	0.07	0.06		
TOTAL OUTSIDE	41114	29894	33701	29241	34822	30403	26826	35121	33663	29208	35141	26034	25032	140.26	85.84	104.88	87.87	109.86	90.34	121.90	94.74	107.13	87.53	102.86
	TOTAL INSIDE	317741	27301	23126	24042	30403	26826	26026	35117	33663	29208	35141	26034	25032	140.26	85.84	104.88	87.87	109.86	90.34	121.90	94.74	107.13	87.53
7	OUTSIDE	42297	20857	30623	34147	35561	32764	30621	34550	36507	35447	34766	148.53	101.28	114.74	118.13	131.19	118.00	118.34	124.47	122.17	112.80	120.79	
	INSIDE	31.2	42.4	31.3	25.7	31.2	36.7	42.4	73.8	31.4	31.3	0.12	0.11	0.14	0.12	0.12	0.17	0.17	0.17	0.17	0.10	0.21		
	HAND	34943	27953	26201	31698	36104	30584	26440	28687	36861	35794	31526	122.71	94.77	97.53	108.62	122.83	110.86	107.00	104.36	116.10	107.55	109.26	
	INHALATION	15.86	9.07	21.77	19.16	22.00	8.27	22.87	17.80	18.59	8.29	18.46	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06	0.06		
TOTAL OUTSIDE	42313	28878	30843	34167	38583	32774	30944	34937	35523	34055	34055	148.53	101.28	114.82	118.25	131.26	118.03	118.33	118.72	121.53	122.23	112.83		
	TOTAL INSIDE	34990	28005	26254	31956	36197	30900	28505	29050	36071	33638	31604	122.87	84.84	87.73	102.93	123.01	110.24	107.25	104.89	116.34	107.86	109.53	

NOTES:

* ug/hour LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* (ug/h pied) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH POUND OF TOMATOES HARVESTED

* OUTSIDE REPRESENTS VALUES WHICH WERE CALCULATED BASED ON PATCHES WORN ON THE EXTERIOR (i.e., CHEST, BACK, SHOULDER, UPPER ARM, FOREARM, THIGH, ANKLE & BACK) OF THE "JUMPSUIT" WORN BY THE TEST SUBJECTS

* INSIDE REPRESENTS VALUES WHICH WERE CALCULATED BASED ON PATCHES WORN ON THE INTERIOR (i.e., ANKLES, CHEST & BACK) OF THE "JUMPSUIT" WORN BY THE TEST SUBJECTS

* HAND REFERS TO EXPOSURE LEVELS WHICH WERE CALCULATED FOR THE GLOVE DATA ONLY.

* TOTAL OUTSIDE = INSIDE VALUES + OUTSIDE VALUES + INHALATION VALUES (i.e., PROTECTED ANKLES, PROTECTED BACK, NONPROTECTED HANDS & INHALATION)

* TOTAL INSIDE = INSIDE VALUES + OUTSIDE VALUES + INHALATION VALUES (i.e., PROTECTED CHEST, PROTECTED BACK, PROTECTED HANDS & INHALATION)

PPA SUPPORT TASK-1827.8
VERSAR, INC. 8/3/93 J.D.
REVIEW OF CHLOROTHALONYL FOAM DISLOCGEABLE/TOMATO RESIDUE DISSIPATION STUDY AND REI CALCULATION

PAI (DA/S) : 0
DERMAL PATCH AREA (cm²) : 86.15
INHALATION RATE (lpm) : 29

STO

QUANTITATION LIMITS		VALUE	UNITS
COTTON GLOVES	0.061	20.0	ug
GAUZE PATCHES	0.080	ug/cm ²	
CELLULOSE FILTERS	0.080	ug	
CHROMSORB TUBES	0.080	ug	

RAW DATA

DOSIMETER	LOCATION	REPLICATE #									
		1	2	3	4	5	6	7	8	9	10
OUTSIDE DEVICES											
HANDS	820	14297	128216	155672	130246	178647	206132	187855	190057	238140	168419
ANKLE RIGHT	1190	0.271	0.493	0.924	0.518	1.908	0.928	0.563	0.613	1.112	1.299
ANKLE LEFT	1190	0.274	0.198	0.425	0.180	0.540	0.773	0.409	0.494	0.356	0.592
CHEST	3550	0.103	0.466	0.460	0.173	0.584	0.246	0.187	0.314	0.493	0.078
BACK	3550	0.074	0.109	0.118	0.101	0.085	0.103	0.084	0.124	0.127	0.083
SHOULDER RIGHT	1455	0.181	0.133	0.128	0.074	0.120	0.071	0.216	0.337	0.106	0.065
UPPERARM RIGHT	1455	0.803	2.434	0.837	1.827	1.810	1.137	4.222	3.372	1.297	0.500
FOREARM RIGHT	605	0.273	0.350	0.748	0.345	0.434	0.688	0.453	0.682	0.280	0.453
THIGH RIGHT	1910	5.747	1.847	5.059	5.042	3.049	3.020	0.894	4.061	1.185	1.185
SHOULDER LEFT	1455	0.122	0.128	0.055	0.135	0.060	0.190	0.108	0.166	0.354	0.544
UPPERARM LEFT	1455	0.575	1.565	2.697	1.095	0.440	1.344	1.882	1.730	0.444	0.790
FOREARM LEFT	605	0.406	0.406	0.330	0.330	0.160	0.636	0.777	0.367	0.323	0.202
THIGH LEFT	1910	5.513	2.741	3.211	3.455	5.869	1.177	1.027	2.267	1.357	0.529
HEAD	1300	0.372	0.143	0.138	0.138	0.284	ND	0.884	0.214	0.118	0.380
INSIDE DEVICES											
ANKLE RIGHT	1190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ANKLE LEFT	1190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHEST	3550	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BACK	3550	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
INHALATION											
FLOW RATE	LPM	1.57	1.67	1.64	1.6	1.57	1.6	1.54	1.64	1.6	1.60
FILTER	TOTAL	2.330	2.330	2.830	3.800	5.500	2.230	2.210	3.140	3.230	2.180
TUBE	FRONTS	0.050	0.250	0.150	0.040	ND	0.040	ND	0.210	0.200	ND
GENERIC DATA	INTERVAL	MINUTES	272	273	286	267	265	263	264	261	282
HARVEST	POUNDS/HOUR	995	1223	1121	1440	1088	1541	1287	1163	1418	1290

NOTES:

* ALL RESIDUE LEVELS (i.e., ug/dominometer-gloves or inhalation monitors and ug/cm²-patch) EXCERPTED DIRECTLY FROM STUDY REPORT. RAW DATA (e.g., chromatograms/tiltions) NOT AVAILABLE TO VERIFY EACH CALCULATION.

* STD. VALUES REPRESENT STANDARD BODY SURFACE AREAS (cm²) FOR WHICH TOTAL DERMAL EXPOSURE LEVELS ARE CALCULATED. FOR THE INHALATION DATA, THESE VALUES REPRESENT THE SEVERAL VALUES FOR EACH EXPOSURE REPLICATE THAT WERE REPORTED IN THE RAW DATA.

* FOR THE GENERIC DATA, THESE DESCRIPTORS ARE THE APPROPRIATE UNITS.

* RAW DATA INCLUDED IN THAT SECTION OF THE TABLE ARE PRESENTED AS (ug chlorothalonil)/sample-gloves, filters or adsorbent tubes) AND AS (ug/cm²-dermal patches).

* RESIDUE DATA WERE NOT CORRECTED FOR ANY TYPE OF QUALITY CONTROL RESULTS AS THE MEANS FOR ALL AVAILABLE RECOVERY DATA WERE >= 80%.

* HAND EXPOSURE LEVELS WERE NOT ADJUSTED/CALCULATED FOR ANY FACTOR. CUMULATIVE VALUES ARE INCLUDED IN THIS TABLE WHICH REPRESENT THE SEVERAL VALUES FOR EACH EXPOSURE REPLICATE THAT WERE REPORTED IN THE RAW DATA.

* EXPOSURE LEVELS BASED ON DERMAL PATCH DATA WERE CALCULATED USING THE FOLLOWING EQUATION:

EXPOSURE PER BODY PART (ug) = (RESIDUE LEVEL (ug/cm²) * STANDARD BODY SURFACE (cm²))

* RESIDUE LEVELS FOR THE SHOULDER AND UPPER ARM LOCATIONS WERE AVERAGED TOGETHER AND THE MEANS WERE USED IN THE CALCULATION USING A SURFACE AREA OF 1485 cm² FOR THE LEFT OR RIGHT SIDE OF THE BODY.

* ONE-HALF OF THE QUANTITY LIMIT USED IN ALL CALCULATIONS WHERE NO DETECTABLE CHLOROTHALONIL RESIDUES WERE IDENTIFIED IN THE SAMPLE.

* INHALATION EXPOSURE LEVELS WERE CALCULATED USING THE FOLLOWING EQUATION:

INHALATION EXPOSURE (ug) = (RESIDUE LEVEL (ug) * TYPICAL HUMAN INHALATION RATE (2 Lpm))/PERSONAL SAMPLING PUMP FLOW RATE (1pm)

* EXPOSURE LEVELS NORMALIZED AS (ug/LB) ARE BASED ON THE AMOUNT OF TOMATOES PICKED DURING EACH EXPOSURE INTERVAL.

DOSIMETER	LOCATION	CALCULATED EXPOSURE LEVELS									
		EXPOSURE					REPLICATE #				
OUTSIDE DEVICES		1	2	3	4	5	6	7	8	9	10
HANDS		142967	128216	155672	130246	178647	206132	187855	190057	238140	168419
ANKLE RIGHT		322.5	586.7	1069.6	616.4	2286.1	747.3	870.0	729.5	1545.6	1323.3
ANKLE LEFT		328.1	226.9	505.8	190.4	842.6	916.0	489.7	576.0	428.0	668.8
CHEST		365.3	163.0	1854.7	614.2	2073.2	562.9	1114.7	1750.2	260.5	294.7
BACK		262.7	318.9	358.6	301.6	306.7	290.2	440.2	450.9	470.1	411.0
SHOULDER RIGHT		985.8	702.0	1237.5	1408.9	878.6	3226.8	2906.3	1022.1	1022.1	1022.1
UPPERARM RIGHT		1867.5	702.0	1237.5	1408.9	878.6	3226.8	2906.3	1022.1	1022.1	1022.1
UPPERARM LEFT		1867.5	702.0	1237.5	1408.9	878.6	3226.8	2906.3	1022.1	1022.1	1022.1
FOREARM RIGHT		1867.5	702.0	1237.5	1408.9	878.6	3226.8	2906.3	1022.1	1022.1	1022.1
FOREARM LEFT		1867.5	702.0	1237.5	1408.9	878.6	3226.8	2906.3	1022.1	1022.1	1022.1
THIGH RIGHT		10878.8	3527.8	1840.7	9630.2	5823.6	5795.3	1129.5	1129.5	2225.2	2225.2
SHOULDER LEFT		907.1	1232.4	2438.6	884.8	378.3	1120.4	1433.2	1379.3	581.3	970.5
UPPERARM LEFT		1867.5	702.0	1237.5	1408.9	878.6	3226.8	2906.3	1022.1	1022.1	1022.1
UPPERARM RIGHT		1867.5	702.0	1237.5	1408.9	878.6	3226.8	2906.3	1022.1	1022.1	1022.1
FOREARM LEFT		10529.8	5225.3	9132.0	7385.1	10986.0	2240.1	1981.0	4386.2	2591.9	972.2
THIGH LEFT		483.6	185.8	386.2	178.4	386.2	59.2	83.2	1162.2	278.2	183.4
HEAD		167072	142121	170950	153175	201656	221734	203281	209912	244507	172279
EXP (ug)	(ug/hour)	3686.4	9126.5	36860.0	359442	453035	502304	456911	47707	57128	403409
EXP (ug)	(ug/LB)	187.81	116.21	152.50	105.86	185.30	159.33	180.49	175.50	137.72	

PPA SUPPORT TASK-1627-6
 VERSAR, INC. 8/3/93 J.D.
 REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE/TOMATO RESIDUE DISSIPATION STUDY AND RE CALCULATION
 PA (DAYS): 15
 DERMAL PATCH AREA (cm²): 68.15
 INHALATION RATE (L/min): 29

QUANTIFICATION LIMITS		VALUE	UNITS
MATRIX			
COTTON GLOVES		20.0	ug
GAUZE PATCHES		0.051	ug/cm ²
CELLULOSE FILTERS		0.000	ug
CHROMBORG TUBES		0.000	ug

RAW DATA									
DOSEMETER LOCATION	STD VALUES	REPLICATE #							
		1	2	3	4	5	6	7	8
OUTSIDE DEVICES									
HANDS	0.20	344580	308002	2364177	2364057	3280084	2363952	2367769	2367727
ANKLE RIGHT	1.190	1.033	1.084	0.831	1.227	3.005	2.198	4.589	2.404
ANKLE LEFT	1.190	0.264	0.526	0.506	0.476	0.523	1.188	0.526	0.507
CHEST	3550	0.393	0.339	0.192	0.586	0.434	0.251	0.510	1.324
ZACK	3550	0.167	0.629	0.361	0.267	0.582	0.200	0.306	0.220
SHOULDER RIGHT	1455	0.846	0.221	0.301	0.218	0.117	0.270	0.544	0.827
UPPERARM RIGHT	1455	1.442	1.812	2.653	1.428	1.303	3.269	4.252	3.695
FOREARM RIGHT	605	0.859	0.806	13.790	2.226	1.178	3.152	1.286	1.060
THIGH RIGHT	1910	17.800	3.299	11.900	9.486	4.985	11.800	2.036	12.300
SHOULDER LEFT	1455	0.144	0.422	1.184	0.221	0.107	0.217	0.269	0.478
UPPERARM LEFT	1455	0.541	0.444	1.480	0.887	2.873	0.813	1.803	2.185
FOREARM LEFT	605	0.549	4.281	24.250	6.313	5.944	3.225	2.859	5.791
THIGH LEFT	1910	4.589	0.205	0.109	0.111	0.082	1.234	0.160	0.082
HEAD	1300	1.306	0.670						
EXP (ug)									
EXP (ug/hour)									
EXP (ug/L)									
INSIDE DEVICES									
ANKLE RIGHT	1.190	0.092	ND	0.092	0.066	0.085	0.060	0.186	ND
ANKLE LEFT	1.190	ND	ND	0.056	0.086	ND	0.122	0.140	ND
CHEST	3550	ND	ND	0.095	ND	0.054	0.054	0.143	ND
BACK	3550	0.053	ND	0.054	ND	ND	ND	ND	ND
INHALATION FLOW RATE	LPM	1.58	1.85	1.67	1.56	1.56	1.56	1.56	1.56
TOTAL	5.700	5.110	6.840	6.040	6.970	6.240	6.120	9.480	5.200
FRONTS	0.100	0.300	0.100	ND	0.080	ND	ND	ND	ND
TUBE									
GENERIC DATA INTERVAL	MINUTES	473	471	472	472	472	472	472	472
HARVEST	POUNDS	2371	3018	2538	2850	3711	2815	2880	3268
	LBS/HOUR	301	384	322	371	337	403	332	384

CALCULATED EXPOSURE LEVELS									
DOSEMETER TYPE	REPLICATE #								
	1	2	3	4	5	6	7	8	
OUTSIDE DEVICES									
HANDS	344500	308082	236177	236407	328004	236395	236776	236772	236771
ANKLE RIGHT	1229.3	1304.2	648.6	1460.1	3578.0	2816.8	5400.9	2736.4	2660.8
ANKLE LEFT	314.2	625.3	873.5	570.0	747.3	822.4	1414.8	903.3	985.1
CHEST	1365.2	1302.5	681.8	2087.4	1540.7	1610.5	470.0	3223.4	536.1
BLACK	562.9	223.0	1291.0	1291.0	947.8	2090.1	738.4	816.5	384.6
SHOULDER RIGHT	1866.0	1353.5	2148.0	1187.5	1033.1	2596.4	3466.1	3259.8	1522.3
UPPERARM RIGHT	AS IN PHED UPPER ARM AND SHOULDER DATA AVERAGED/PRESENTED AS UPPER ARM EXPOSURE LEVELS								
FOREARM RIGHT	419.8	448.6	834.0	1347.9	712.7	1807.0	745.8	659.5	1073.3
THIGH RIGHT	23698.0	38011.1	227720.0	1818.3	8621.4	22728.0	3040.5	20884.9	3848.0
SHOULDER LEFT	913.0	787.0	3241.0	706.3	1304.4	2496.9	3623.7	2622.0	1273.1
UPPERARM LEFT	AS IN PHED UPPER ARM AND SHOULDER DATA AVERAGED/PRESENTED AS UPPER ARM EXPOSURE LEVELS								
FOREARM LEFT	327.3	286.0	1718.7	4637.9	1587.9	1734.2	932.4	1090.8	876.0
THIGH LEFT	8765.0	8765.0	1178.7	1178.7	1178.7	1320.1	6156.8	5460.7	11090.6
HEAD	1867.8	871.0	280.5	141.7	144.3	118.6	1804.2	215.8	119.8
EXP (ug)	356275	331989	357368	278462	365749	325272	335978	3455647	5056205
EXP (ug/hour)	50217	44263	44712	38525	458985	41346	42073	73544	47837
EXP (ug/L)	186.97	109.90	138.70	80.80	138.61	102.55	120.80	153.08	119.85
INSIDE DEVICES									
ANKLE RIGHT	ND	ND	ND	ND	ND	ND	ND	ND	ND
ANKLE LEFT	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHEST	ND	ND	ND	ND	ND	ND	ND	ND	ND
BACK	ND	ND	ND	ND	ND	ND	ND	ND	ND
INHALATION									
FILTERS	104.82	98.91	115.31	147.57	163.80	114.53	186.34	177.35	95.34
TUBES	1.84	9.27	1.74	0.55	1.46	0.55	0.65	0.56	0.54
E30 (ug)	106.48	95.08	117.04	148.12	165.08	115.96	168.88	178.12	95.88
E30 (ug/hour)	19.50	12.11	14.88	18.83	20.98	14.83	21.21	22.64	12.04
E30 (ug/L)	0.04	0.03	0.05	0.05	0.05	0.05	0.04	0.05	0.03
INHALATION									
FRONTS	0.10	0.30	0.100	ND	0.080	ND	ND	ND	ND
TUBE									

NOTES:

* ALL RESIDUE LEVELS (i.e., liquidometer-gloves or inhalation monitors and ug/cm²-patch) EXCERPTED DIRECTLY FROM STUDY REPORT. RAW DATA (e.g., chromatogram/dilution) NOT AVAILABLE TO VERIFY EACH CALCULATION.

FOR THE INHALATION DATA, THESE VALUES REPRESENT AIR FLOW OR THE DOSIMETER TYPE.

* RAW DATA INCLUDED IN THAT SECTION OF THE TABLE ARE PRESENTED AS ug chlorothalonil/ample-gloves, filters or adsorbent tubes AND AS ug/cm²-dermal patches.

* RESIDUE DATA WERE NOT CORRECTED FOR ANY TYPE OF QUALITY CONTROL FACTORS AS THE MEANS FOR ALL AVAILABLE RECOVERY DATA WERE >= 80%.

* HAND EXPOSURE LEVELS WERE NOT ADJUSTED/CALCULATED FOR ANY FACTOR. CUMULATIVE VALUES ARE INCLUDED IN THIS TABLE WHICH REPRESENT THE SEVERAL VALUES FOR EACH EXPOSURE REPLICATE THAT WERE REPORTED IN THE RAW DATA.

* EXPOSURE LEVELS BASED ON DERMAL PATCH DATA WERE CALCULATED USING THE FOLLOWING EQUATION:

EXPOSURE PER BODY PART (ug) = (RESIDUE LEVEL (ug/cm²) * (STANDARD BODY SURFACE (cm²))

* RESIDUE LEVELS FOR THE SHOULDER AND UPPER ARM LOCATIONS WHERE NO DETECTABLE CHLOROTHALONIL RESIDUES WERE IDENTIFIED IN THE SAMPLE.

* INHALATION EXPOSURE LEVELS WERE CALCULATED USING THE FOLLOWING EQUATION:

INHALATION EXPOSURE (ug) = (RESIDUE LEVEL (ug) * TYPICAL HUMAN INHALATION RATE (20 Lpm)) / PERSONAL SAMPLING PUMP FLOW RATE (Lpm)

* EXPOSURE LEVELS NORMALIZED AS (ug/LB) ARE BASED ON THE AMOUNT OF TOMATOES PICKED DURING EACH EXPOSURE INTERVAL.

PPA SUPPORT TASK-1827 6
 VERSAR INC. 9/3/93 J.D.
 REVIEW OF CHLOROTHALONIL FOAM DISLOCGEABLE/TOMATO RESIDUE DISSIPATION STUDY AND REI CALCULATION
 PAI (DAYS): 3
 DERMAL PATCH AREA (cm²): 68.15
 INHALATION RATE (L/min): 29

PPA SUPPORT TASK-1827 6
 VERSAR INC. 9/3/93 J.D.
 REVIEW OF CHLOROTHALONIL FOAM DISLOCGEABLE/TOMATO RESIDUE DISSIPATION STUDY AND REI CALCULATION
 PAI (DAYS): 3
 DERMAL PATCH AREA (cm²): 68.15
 INHALATION RATE (L/min): 29

QUANTITATION LIMITS		MATRIX	VALUE	UNITS
COTTON GLOVES				
DAUVE PATCHES		0.061	ug	ug/cm ²
CELLULOSE FILTERS		0.000	ug	ug
CHROMOSORE TUBES		0.000	ug	ug

DOSIMETER	STD.	VALUES	REPLICATE #										CALCULATED EXPOSURE LEVELS										
			1	2	3	4	5	6	7	8	9	10	TYPE	1	2	3	4	5	6	7	8	9	10
OUTSIDE DEVICES													OUTSIDE DEVICES										
HANDS	6.20	296077	213079	222624	197226	234595	226549	231067	195430	278610	211628		HANDS	296077	213079	222624	197226	234595	226549	231067	195430	278610	211628
ANKLE RIGHT	11.90	0.824	0.867	0.488	1.347	1.228	1.598	1.084	1.054	1.788	1.308		ANKLE RIGHT	960.8	783.7	560.7	1892.9	1461.3	1901.8	1296.2	1254.3	2127.7	1554.1
ANKLE LEFT	11.90	0.261	0.384	0.370	0.361	0.224	0.560	0.526	0.568	0.146	0.146		ANKLE LEFT	346.3	457.0	707.3	429.8	269.6	666.4	942.9	673.5	743.8	173.7
CHEST	35.50	0.157	0.191	0.352	0.145	0.227	0.218	0.348	0.433	0.142	0.227		CHEST	557.4	678.1	1246.6	1707.6	505.9	786.8	1235.4	1537.2	504.1	516.3
BACK	35.50	0.110	0.082	0.218	0.290	0.245	0.198	0.323	0.270	0.236	0.148		BACK	360.5	261.1	773.8	823.0	873.3	598.3	1146.7	958.5	837.8	1609.2
SHOULDER RIGHT	14.55	0.227	0.271	0.277	0.311	0.260	0.211	0.674	0.944	0.321	0.197		SHOULDER RIGHT	2286.2	1478.8	2441.6	1473.9	1981.8	668.4	2862.0	2868.3	1609.2	624.2
UPPERARM RIGHT	14.55	2.688	1.759	3.079	1.715	2.478	0.984	3.225	3.289	1.861	0.701		UPPERARM RIGHT	AS IN PHED UPPER ARM AND SHOULDER DATA AVERAGED/PRESENTED AS UPPER ARM EXPOSURE LEVELS									
FOREARM RIGHT	8.05	1.964	1.057	0.587	1.204	0.727	0.936	1.060	0.764	1.316	0.353		FOREARM RIGHT	1166.2	636.5	355.1	728.8	436.3	507.5	659.5	482.2	798.2	2130.5
THIGH RIGHT	19.10	26.120	2.492	3.914	7.800	7.316	4.580	11.360	4.721	2.566	7.226		THIGH RIGHT	49686.2	4786.7	7475.7	1489.0	6197.6	9017.1	4899.2	13605.5		
SHOULDER LEFT	14.55	0.270	0.169	0.516	0.170	0.220	0.168	0.666	0.375	0.346	0.327		SHOULDER LEFT	1110.2	378.8	1069.4	1446.3	1620.9	904.3	1384.6	3606.4	1320.4	1196.1
UPPERARM LEFT	14.55	1.256	0.349	1.616	1.618	2.008	1.074	1.193	4.705	1.466	1.290		UPPERARM LEFT	AS IN PHED UPPER ARM AND SHOULDER DATA AVERAGED/PRESENTED AS UPPER ARM EXPOSURE LEVELS									
FOREARM LEFT	6.05	1.114	0.337	0.931	1.155	0.486	0.867	0.931	0.536	0.585	0.441		FOREARM LEFT	674.0	203.9	563.3	668.6	286.8	403.5	563.3	567.5	353.9	2635.6
THIGH LEFT	19.10	6.665	5.560	12.710	6.707	6.543	3.343	6.259	6.730	6.730	6.730		THIGH LEFT	16550.2	10696.3	24787.1	11582.1	12573.5	8245.5	5403.4	12654.3	10909.7	2635.6
HEAD	13.00	0.499	0.127	0.082	0.243	0.623	0.084	0.748	0.078	0.083	0.086		HEAD	646.7	185.1	116.3	313.9	866.9	105.2	873.7	102.7	88.8	111.6
INSIDE DEVICES													INSIDE DEVICES	373678	235850	263856	231854	274583	245379	265704	228116	301852	233250
ANKLE RIGHT	11.90	ND	ND	0.098	0.086	ND	0.166	0.096	0.173	ND	0.084		ANKLE RIGHT	30.3	30.3	116.6	78.5	30.3	197.5	117.5	205.9	30.3	100.0
ANKLE LEFT	11.90	ND	ND	0.089	0.076	0.054	0.075	0.187	0.180	ND	ND		ANKLE LEFT	30.3	30.3	105.8	92.8	30.3	88.3	180.7	180.4	30.3	30.3
CHEST	35.50	ND	ND	0.073	0.062	ND	0.056	0.065	ND	ND	ND		CHEST	60.5	60.5	90.5	259.2	291.1	90.5	188.6	301.6	90.5	90.5
BACK	35.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		BACK	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
INHALATION													INHALATION	241.7	403.8	521.0	442.3	442.3	442.3	442.3	788.5	241.7	311.6
FLOW RATE	LPM	1.55	1.64	1.60	1.57	1.61	1.55	1.57	1.60	1.60	1.60		TUBES	30.5	30.9	61.0	65.7	65.2	59.0	76.5	100.5	30.7	36.4
FILTER	TOTAL	5.040	4.530	12.080	6.750	7.530	5.160	9.250	6.110	9.000	2.730		EXP (ug/hour)	66.54	82.40	122.40	125.24	136.17	97.85	171.76	188.83	175.09	50.03
TUBE	FRONTS	0.120	ND	0.070	ND	ND	0.070	0.070	ND	0.060	ND		EXP (ug/LB)	12.17	10.54	27.94	15.70	17.31	12.33	21.70	21.51	22.21	8.33
GENERIC DATA	INTERVAL	MINUTES	478	460	475	478	472	475	471	473	474		FILTERS	84.30	81.87	218.13	124.88	135.83	86.54	170.49	188.27	174.00	49.46
HARVEST	POUNDS	2135	2488	2142	2257	2177	2514	1802	2073	2586	2422		TUBES	2.25	0.53	1.27	0.56	0.54	1.31	1.29	0.55	1.09	0.54
	LBS/HOUR	289	318	271	284	277	317	240	284	328	307		EXP (ug/hour)	0.05	0.03	0.10	0.08	0.06	0.04	0.06	0.07	0.07	0.02

NOTES:

* ALL RESIDUE LEVELS (i.e., ug/desimeter-glove or inhalation monitor) AND SURFACE AREAS (cm²) FROM WHICH TOTAL DERMAL EXPOSURE LEVELS ARE CALCULATED. FOR THE INHALATION DATA, THESE VALUES REPRESENT AIR FLOW OR THE DOSIMETER TYPE.

** STD. VALUES REPRESENT STANDARD BODY SURFACE AREAS (cm²) FOR ANY TYPE OF QUALITY CONTROL RESULTS AS THE MEANS FOR ALL AVAILABLE RECOVERY DATA WERE > 90%.

*** RAW DATA INCLUDED IN THAT SECTION OF THE TABLE ARE PRESENTED AS [ug chlorothalonil/filter-glove, filters or adsorbent tubes] AND AS [ug/cm²-dermal patch].

**** RESIDUE LEVELS FOR THE SHOULDER AND UPPER ARM LOCATIONS WERE AVERAGED TOGETHER AND THE MEANS WERE USED IN THE CALCULATION USING A SURFACE AREA OF 1455 cm² FOR THE LEFT OR RIGHT SIDE OF THE BODY.

***** ONE-HALF OF THE QUANTIFICATION LIMIT USED IN ALL CALCULATIONS WHERE NO DETECTABLE CHLOROTHALONIL RESIDUES WERE IDENTIFIED IN THE SAMPLE.

***** INHALATION EXPOSURE LEVELS WERE CALCULATED USING THE FOLLOWING EQUATION:

$$\text{EXP (ug/LB)} = (\text{RESIDUE LEVEL (ug/cm}^2) \times \text{STANDARD BODY SURFACE (cm}^2)) / (\text{INHALATION RATE (28 Lpm)} \times \text{PERSONAL SAMPLING PUMP FLOW RATE (Lpm)})$$

***** EXPOSURE LEVELS NORMALIZED AS (ug/LB) ARE BASED ON THE AMOUNT OF TOMATOES PICKED DURING EACH EXPOSURE INTERVAL.

QUANTIFICATION LIMITS	MATRIX	VALUE	UNITS
COTTON GLOVES		20.0	ug
GAUZE PATCHES		0.051	ug/cm ²
CELLULOSE FILTERS		0.060	ug
CHROMICRIS TUBES		0.060	ug

1

NOTES: * ALL RESIDUE LEVELS (i.e., ug/dosimeter-gloves or inhalation monitors and ug/cm²-patches) EXCEPTED DIRECTLY FROM STUDY REPORT. RAW DATA (i.e., chromatograms/analyses) NOT AVAILABLE TO VERIFY EACH CALCULATION.

* STD VALUES REPRESENTS STANDARD BODY SURFACE AREAS (cm²) FROM WHICH TO AL DENTAL EXPOSURE LEVELS ARE CALCULATED. FOR THE INITIATION DATA, THESE DESCRIPTORS ARE THE APPROPRIATE UNITS.

HAND DATA INCLUDED IN THIS SECTION OF THE TABLE ARE FREQUENCY CONTROLLED AND ARE MEANS FOR ALL AVAILABLE RECOVERY DATA. *HANDBEADY DATA WERE NOT CORRECTED FOR ANY TYPE OF EXPOSURE.

MANUFACTURE IS BASED ON DERMAL PATCH DATA WERE CAUCULATED USING THE FOLLOWING EQUATION:

* EXPOSURE LEVELS BASED ON UNTILTED (ARM UP) DATA FROM CLOUDY 2000. • STANDARD BODY SURFACE (cm²) = (RESIDUE LEVEL (mg/m³) * (RESIDUE LEVEL (mg/m³) + 1)) / 2. • RESIDUE LEVELS FOR THE SHOULDER AND UPPER ARM LOCATIONS WERE AVERAGED TOGETHER AND THE MEANS WERE USED IN THE CALCULATION USING A SURFACE AREA OF 145 cm² FOR THE LEFT OR RIGHT SIDE OF THE BODY.

* INDICATED BY THE QUANTIFICATION LIMIT USED IN ALL CALCULATIONS WHERE NO DETECTABLE CHLOROTHALONYL RESIDUES WERE IDENTIFIED IN THE SAMPLE.

INITIATION EXPENDURE LEVELS WERE CALCULATED USING THE FOLLOWING EQUATION

INHALATION EXPOSURE LEVEL = [RESIDUE LEVEL] (mg) / TYPICAL HUMAN INHALATION RATE (20 Lpm) / PERSONAL SAFETY FACTOR

INITIAL LIGHT EXPOSURE IS NORMALIZED AS HOW B1 ARE BASED ON THE AMOUNT OF TONALITIES PICKED DURING EACH EXPOSURE INTERVAL.

HAND Exposure Rates for Chlorothalil day 0 2/10.003

	1	2	3	4	5	6	7	8	9	10
ug/hour	31411.1	27739.78	35113.98	29051.6	39763.37	47124.23	42856.65	43194.77	54744.83	38569.24
ug/lb	143.1126	103.202	138.8689	90.45	162.6351	135.0629	149.4471	163.4196	168.178	131.5773

day 1 ~~144h~~ Exposure Rates for chlordane

21/0.08.3

	1	2	3	4	5	6	7	8	9	10
ug/hour	43707.4	39247.39	33581.82	30059.36	41448.81	36095.59	38108.77	37343.77	69855.15	44634.85
ug/lb	145.3226	102.0848	104.1707	81.06514	123.043	89.54652	114.6421	102.5021	145.3992	105.8175

HAND EXPOSURE RATES FOR Chlordane 2110.003
day 3

	1	2	3	4	5	6	7	8	9	10
ug/hour	37698.78	27259.57	28247.24	24860.67	30329.87	28556.6	29187.41	24895.54	35087.95	26788.1
ug/lb	140.0829	85.71158	104.3996	87.38502	109.5981	90.11496	121.4863	94.274	106.9644	87.37655

Hand Exposure Rates for chlorthalidone 2/10.003

day 7

	1	2	3	4	5	6	7	8	9	10
ug/hour	34943.23	27953.29	26200.82	31685.67	36104	30564.03	28440	28967.04	36621.04	33798.27
ug/lb	122.705	94.76728	97.5316	109.6178	122.8297	110.0762	107.0024	104.3553	116.1654	107.5505

ATTACHMENT C

TRANSFER COEFFICIENT &

REGRESSION CALCULATIONS

REVIEW OF CHLOROTHALONIL FOLIAR DISLODGEABLE RESIDUE/EXPOSURE STUDY
CALCULATION OF TRANSFER COEFFICIENTS FOR FDR AND TOMATO RESIDUE DATA

TOMATO PICKING RATE (lb/hour): 307

STUDY DAY	RESIDUE DISSIPATION DATA				TOMATO DATA			
	FDR DATA (ug/cm ²)	INT (ug/cm ²)	INT (ppm)	INT (ppm)	TOMATO DATA (lb picked/hr)	DESCRIPTION	(lb picked/hr)	DESCRIPTION
0	4.300	1.4586	0.630	-0.4620				
1		3.830	1.3429	0.570	-0.5621			
3		3.750	1.3216	0.460	-0.7785			
7		3.040	1.1119	0.470	-0.7560			

STUDY DAY	EXPOSURE DATA				TRANSFER COEFFICIENT CALCULATION			
	DESCRIPTION	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE LEVELS	EXPOSURE FACTOR	DESCRIPTION	EXPOSURE VALUES NORMALIZED BY HOURS WORKED	WHOLE TOMATO RESIDUES (lb picked/hr)
0 TOTAL OUTSIDE	427.12	(ug/hour)	TOTAL INSIDE	360.32	(ug/hour)	TOTAL OUTSIDE	9833 TOTAL INSIDE	148.33 TOTAL INSIDE
1	4677.0	(ug/hour)		41.487	(ug/hour)		12211	160.73
3	3348.9	(ug/hour)		2838.2	(ug/hour)		8984	7830
7	3480.5	(ug/hour)		3110.4	(ug/hour)		11449	10396
MEAN	3949.4	(ug/hour)		3597.1	(ug/hour)		10844	8534
0 TOTAL OUTSIDE	152.50	(ug/hb picked)	TOTAL INSIDE	138.86	(ug/hb picked)	TOTAL OUTSIDE	10888 TOTAL INSIDE	8614 TOTAL OUTSIDE
1	126.48	(ug/hb picked)		111.58	(ug/hb picked)		10138	8844
3	118.53	(ug/hb picked)		102.99	(ug/hb picked)		9704	8432
7	120.82	(ug/hb picked)		106.53	(ug/hb picked)		12201	11061
MEAN	129.58	(ug/hb picked)		115.74	(ug/hb picked)		10733	8988

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

** "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.

** "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OF EXPOSURE (mg/h) * DAILY HOURS

* TRANSFER COEFFICIENTS CALCULATED USING THE FOLLOWING EQUATIONS:

$$\begin{aligned} \text{FDR (NORMALIZATION BY HOURS WORKED)} &= \text{EXPOSURE (ug/hour)}/\text{FDR LEVEL (ug/cm}^2\text{)} \\ \text{WHOLE TOMATOES (NORMALIZATION BY POUNDS TOMATOES PICKED)} &= ((\text{EXPOSURE (ug/hour)})/(\text{TOMATO RESIDUE (ppm)})) * (\text{lb}/454g) \\ \text{WHOLE TOMATOES (NORMALIZATION BY POUNDS TOMATOES PICKED)} &= ((\text{EXPOSURE (ug/hour)}) * \text{TOMATO PICKING RATE (lb/hour)})/\text{TOMATO RESIDUE (ppm)} * (\text{lb}/454g) \end{aligned}$$

PPA SUPPORT TASK: 2110.003

VERSAR, INC. 9/10/93 JLD

REVIEW OF CHLOROTHALONIL FOLIAR DISLODGEABLE/TOMATO RESIDUE DISSIPATION STUDY AND REI CALCULATION

CORRELATION ANALYSIS/LINEAR EQUATION DEVELOPMENT (EXPOSURE vs. Ln RESIDUE DATA)

(NOTE: EXPOSURE LEVELS USED IN THIS ANALYSIS WERE NORMALIZED BY THE HOURS WORKED)

STUDY DAY	EXPOSURE LEVELS		RESIDUE LEVELS		Ln [RESIDUE LEVELS]				
	TOTAL OUTSIDE (ug/hour)	TOTAL INSIDE (ug/hour)	FDR (ug/cm ²)	TOMATOES (ppm)	FDR (ug/cm ²)	TOMATOES (ppm)			
0.00	42712	39032	4.300	0.630	1.4586	-0.4620			
1.00	46770	41487	3.830	0.570	1.3429	-0.5621			
3.00	33689	29362	3.750	0.460	1.3218	-0.7765			
7.00	34805	31604	3.040	0.470	1.1119	-0.7550			
TOTAL OUTSIDE		TOTAL INSIDE							
FDR LEVELS									
Regression Output:			Regression Output:						
Constant	6476.83634972		Constant	5646.37927316					
Std Err of Y Est	6291.49928241		Std Err of Y Est	5866.70812314					
R Squared	0.93463078002		R Squared	0.31916978228					
No. of Observations		4	No. of Observations		4				
Degrees of Freedom		2	Degrees of Freedom		2				
Correlation Coefficient	0.5784728005		Correlation Coefficient	0.56495113263					
X Coefficient(s)	25227.565		X Coefficient(s)	22712.009					
Std Err of Coef.	25154.098		Std Err of Coef.	23455.737					
WHOLE TOMATO LEVELS									
Regression Output:			Regression Output:						
Constant	62179.1303099		Constant	57232.9315607					
Std Err of Y Est	3952.137092		Std Err of Y Est	3132.03965328					
R Squared	0.73744614146		R Squared	0.80595414836					
No. of Observations		4	No. of Observations		4				
Degrees of Freedom		2	Degrees of Freedom		2				
Correlation Coefficient	0.85874684364		Correlation Coefficient	0.89774949087					
X Coefficient(s)	35505.074		X Coefficient(s)	34216.273212					
Std Err of Coef.	14980.284		Std Err of Coef.	11871.749414					
LINEAR EQUATIONS BASED ON SEMILOG ANALYSIS OF DISSIPATION/EXPOSURE DATA					CORR COEFF.				
FDR LEVELS:									
TOTAL OUTSIDE EXPOSURE (ug/hour) = ((25227.6 * (Ln FDR(ug/cm ²))) + 6476.84)					0.5785				
TOTAL INSIDE EXPOSURE (ug/hour) = ((22712.0 * (Ln FDR(ug/cm ²))) + 5646.38)					0.5650				
WHOLE TOMATOES:									
TOTAL OUTSIDE EXPOSURE (ug/hour) = ((35505.0 * (Ln WHOLE TOMATO (ppm))) + 62179.1)					0.8587				
TOTAL INSIDE EXPOSURE (ug/hour) = ((34216.3 * (Ln WHOLE TOMATO (ppm))) + 57232.9)					0.8977				

NOTES:

* ALL VALUES USED FOR CALCULATIONS ARE AVERAGES OF REPPLICATE SAMPLE

ANALYSES AT EACH INTERVAL

* RESIDUE LEVELS NOT CORRECTED FOR AVAILABLE QC RESULTS AS ALL AVERAGE RECOVERIES WERE >= 90%.

PPA SUPPORT TASK: 2110.003

VERSAR, INC. 9/10/93 JLD

REVIEW OF CHLOROTHALONIL FOLIAR DISLODGEABLE/TOMATO RESIDUE DISSIPATION STUDY AND REI CALCULATION

CORRELATION ANALYSIS/LINEAR EQUATION DEVELOPMENT (EXPOSURE vs. Ln RESIDUE DATA)

(NOTE: EXPOSURE LEVELS USED IN THIS ANALYSIS WERE NORMALIZED BY THE POUNDS PICKED DURING EACH REPLICATE)

STUDY DAY	EXPOSURE LEVELS		RESIDUE LEVELS		Ln [RESIDUE LEVELS]				
	TOTAL OUTSIDE (ug/lb picked)	TOTAL INSIDE (ug/lb picked)	FDR (ug/cm ²)	TOMATOES (ppm)	FDR (ug/cm ²)	TOMATOES (ppm)			
0.00	152.50	138.86	4.300	0.630	1.4586	-0.4620			
1.00	126.48	111.58	3.830	0.570	1.3429	-0.5621			
3.00	118.53	102.99	3.750	0.460	1.3218	-0.7765			
7.00	120.82	109.53	3.040	0.470	1.1119	-0.7550			
TOTAL OUTSIDE		TOTAL INSIDE							
FDR LEVELS									
Regression Output:			Regression Output:						
Constant	26.8580024963		Constant	24.1112361785					
Std Err of Y Est	13.1980678054		Std Err of Y Est	14.9386689807					
R Squared	0.5252260062		R Squared	0.40723950183					
No. of Observations		4	No. of Observations		4				
Degrees of Freedom		2	Degrees of Freedom		2				
Correlation Coefficient	0.72472477982		Correlation Coefficient	0.63815319621					
X Coefficient(s)	78.489145		X Coefficient(s)	70.011					
Std Err of Coef.	52.76731		Std Err of Coef.	59.727					
WHOLE TOMATO LEVELS									
Regression Output:			Regression Output:						
Constant	187.907622052		Constant	173.072261483					
Std Err of Y Est	8.76834012657		Std Err of Y Est	9.81163728844					
R Squared	0.79044357187		R Squared	0.74429615794					
No. of Observations		4	No. of Observations		4				
Degrees of Freedom		2	Degrees of Freedom		2				
Correlation Coefficient	0.88906893538		Correlation Coefficient	0.88272800388					
X Coefficient(s)	91.28613		X Coefficient(s)	89.7321789884					
Std Err of Coef.	33.235702		Std Err of Coef.	37.190237713					
LINEAR EQUATIONS BASED ON SEMILOG ANALYSIS OF DISSIPATION/EXPOSURE DATA						CORR COEFF.			
FDR LEVELS:									
TOTAL OUTSIDE EXPOSURE (ug/lb picked) = ((78.49 * (Ln FDR(ug/cm ²))) + 26.85)						0.7247			
TOTAL INSIDE EXPOSURE (ug/lb picked) = ((70.01 * (Ln FDR(ug/cm ²))) + 24.11)						0.6382			
WHOLE TOMATOES:									
TOTAL OUTSIDE EXPOSURE (ug/lb picked) = ((91.29 * (Ln WHOLE TOMATO (ppm))) + 187.91)						0.8891			
TOTAL INSIDE EXPOSURE (ug/lb picked) = ((89.73 * (Ln WHOLE TOMATO (ppm))) + 173.01)						0.8827			

NOTES:

* ALL VALUES USED FOR CALCULATIONS ARE AVERAGES OF REPLICATE SAMPLE

ANALYSES AT EACH INTERVAL

* RESIDUE LEVELS NOT CORRECTED FOR AVAILABLE QC RESULTS AS ALL AVERAGE RECOVERIES WERE >= 90%.

ATTACHMENT D

**LADEs/RISKS
FOR ACTUAL EXPOSURES**

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR (mg/day)	LADE CALCULATIONS (mg/day)					RISK ANALYSIS				
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS
EXPOSURE VALUES NORMALIZED BY HOURS WORKED													
TOTAL OUTSIDE	0	42712 (ug/hour)	341.70	2.00E-01	4.01E-01	6.01E-02	8.01E-02	3.15E-04	6.30E-04	9.45E-04	1.28E-03	1.57E-04	3.15E-04
	1	48770 (ug/hour)	374.16	2.18E-06	4.36E-03	6.58E-03	8.78E-03	3.45E-04	6.90E-04	1.03E-03	1.38E-03	1.72E-04	3.45E-04
	3	33689 (ug/hour)	269.51	1.58E-02	3.18E-05	4.74E-05	6.32E-05	2.46E-04	4.97E-04	7.45E-04	9.94E-04	1.24E-04	2.48E-04
	7	34805 (ug/hour)	278.44	1.63E-07	3.26E-03	4.90E-04	6.53E-04	2.50E-04	5.13E-04	7.70E-04	1.02E-03	1.28E-04	2.58E-04
TOTAL INSIDE	0	39032 (ug/hour)	312.25	1.83E-02	3.68E-04	5.49E-04	7.32E-04	2.88E-04	5.70E-04	8.64E-04	1.15E-03	1.44E-04	2.88E-04
	1	41487 (ug/hour)	331.80	1.94E-05	3.80E-07	5.84E-05	7.79E-05	3.06E-04	6.12E-04	9.18E-04	1.22E-03	1.53E-04	3.06E-04
	3	29362 (ug/hour)	234.80	1.37E-02	2.75E-01	4.19E-01	5.16E-01	2.16E-04	4.33E-04	6.50E-04	8.68E-04	1.04E-04	2.18E-04
	7	31604 (ug/hour)	252.83	1.48E-04	2.98E-07	4.45E-01	5.83E-01	2.33E-04	4.66E-04	6.98E-04	9.33E-04	1.16E-04	2.33E-04
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED													
TOTAL OUTSIDE	0	152.50 (ug/lb picked)	374.54	2.19E-06	4.39E-07	6.58E-05	8.79E-05	3.45E-04	6.91E-04	1.037E-03	1.382E-03	1.728E-04	3.45E-04
	1	126.48 (ug/lb picked)	310.64	1.82E-07	3.84E-07	5.47E-01	7.28E-01	2.80E-04	5.732E-04	8.587E-04	1.149E-03	1.433E-04	2.868E-04
	3	118.53 (ug/lb picked)	281.12	1.70E-01	3.41E-02	5.12E-02	6.83E-02	2.68E-04	5.372E-04	8.057E-04	1.074E-03	1.343E-04	2.886E-04
	7	120.82 (ug/lb picked)	266.73	1.74E-01	3.46E-01	5.22E-02	6.98E-02	2.73E-04	5.475E-04	8.213E-04	1.095E-03	1.369E-04	2.738E-04
TOTAL INSIDE	0	138.86 (ug/lb picked)	341.04	2.00E-02	4.00E-04	6.00E-06	8.00E-06	3.14E-04	6.293E-04	9.439E-04	1.259E-03	1.573E-04	3.148E-04
	1	111.58 (ug/lb picked)	274.03	1.80E-06	3.21E-07	4.82E-04	6.425E-04	2.328E-04	5.056E-04	7.584E-04	1.011E-03	1.284E-04	3.288E-04
	3	102.99 (ug/lb picked)	252.95	1.48E-01	2.97E-01	4.45E-01	5.94E-01	2.334E-04	4.687E-04	7.021E-04	9.334E-04	1.167E-04	2.334E-04
	7	109.53 (ug/lb picked)	269.01	1.57E-03	3.15E-06	4.737E-03	6.317E-03	2.482E-04	4.863E-04	7.445E-04	9.927E-04	1.241E-04	2.482E-04

NOTES:

- (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- TOTAL OUTSIDE REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- TOTAL INSIDE REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OF EXPOSURE (mg/lb tomatoes picked) • PICKING RATE (lb/hour) • DAILY HOURS
- TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (day)/365 (days)] * [WORK INTERVAL (yr)/AVG. LIFETIME (yrs)]
- RISK = [LADE(mg/day) * Q1 * (mg/kg/day)-1] * (DERMAL ABS. FACTOR100)]/(BODY WEIGHT(kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

EXPOSURE PARAMETERS		TOXICOLOGICAL PARAMETERS									
		DAILY WORK HOURS:		ANNUAL EXPOSURE (days):		CLOROTHALONIL Q1* (mg/kg/day)-1:		AVERAGE WEIGHT:		DERMAL ABS. FACT. #1 (%):	
		15/30/45/60		20		70		100		50	
		TOTAL WORK INTERVAL (yr's):		AVERAGE LIFETIME (yr's):		PICKING RATE (lb/hour):		DERMAL ABS. FACT. #2 (%):			
		307									
DESCRIPTION		STUDY DAY		EXPOSURE LEVELS		EXPOSURE FACTOR		LADE CALCULATIONS		RISK ANALYSIS	
		15 DAYS		30 DAYS		45 DAYS		60 DAYS		DERMAL ABSORPTION FACTOR #1	
		15 DAYS		30 DAYS		45 DAYS		60 DAYS		DERMAL ABSORPTION FACTOR #2	
EXPOSURE VALUES NORMALIZED BY HOURS WORKED		15 DAYS		30 DAYS		45 DAYS		60 DAYS		15 DAYS	
TOTAL OUTSIDE		0		42712 (ug/hour)		4.0121 (mg/day)		12.0384 (mg/day)		1.281E-03 (0.001)	
1		46770 (ug/hour)		4.3933 (mg/day)		13.1798 (mg/day)		17.5730 (mg/day)		1.881E-03 (0.001)	
3		33689 (ug/hour)		3.1645 (mg/day)		9.3281 (mg/day)		12.6582 (mg/day)		2.071E-03 (0.001)	
7		34805 (ug/hour)		2.2693 (mg/day)		5.5387 (mg/day)		9.8080 (mg/day)		1.381E-03 (0.001)	
TOTAL INSIDE		0		39032 (ug/hour)		3.0884 (mg/day)		7.3326 (mg/day)		1.152E-03 (0.001)	
1		41487 (ug/hour)		331.80 (mg/day)		3.8970 (mg/day)		7.7941 (mg/day)		1.152E-03 (0.001)	
3		29382 (ug/hour)		234.80 (mg/day)		2.7581 (mg/day)		5.5181 (mg/day)		5.138E-04 (0.001)	
7		31604 (ug/hour)		252.83 (mg/day)		2.6887 (mg/day)		5.8374 (mg/day)		1.028E-03 (0.001)	
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED		15 DAYS		30 DAYS		45 DAYS		60 DAYS		15 DAYS	
TOTAL OUTSIDE		0		152.50 (ug/lb picked)		374.54 (mg/lb picked)		4.3977 (mg/day)		8.7864 (mg/day)	
1		126.48 (ug/lb picked)		310.64 (mg/lb picked)		3.6474 (mg/day)		7.2548 (mg/day)		10.9422 (mg/day)	
3		116.53 (ug/lb picked)		281.12 (mg/lb picked)		3.4182 (mg/day)		8.8385 (mg/day)		10.2547 (mg/day)	
7		120.82 (ug/lb picked)		286.73 (mg/lb picked)		3.4841 (mg/day)		9.8833 (mg/day)		10.4524 (mg/day)	
TOTAL INSIDE		0		138.86 (ug/lb picked)		341.04 (mg/lb picked)		4.0044 (mg/day)		8.0089 (mg/day)	
1		111.58 (ug/lb picked)		274.03 (mg/lb picked)		3.2176 (mg/day)		6.4352 (mg/day)		9.0528 (mg/day)	
3		102.99 (ug/lb picked)		252.85 (mg/lb picked)		2.6701 (mg/day)		5.9401 (mg/day)		8.9102 (mg/day)	
7		108.53 (ug/lb picked)		282.01 (mg/lb picked)		3.1586 (mg/day)		6.3172 (mg/day)		9.4757 (mg/day)	

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

• "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.

• "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.

• EXPOSURE (mg/day) = EXPOSURE (mg/hour) • DAILY HOURS OR EXPOSURE (mg/lb tomatoes picked) • PICKING RATE (mg/lb tomatoes) • DAILY HOURS

• TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

• LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/265 (days)] * [WORK INTERVAL (yr)/AVG. LIFETIME (yr)]

• RISK = [LADE(mg/day) * Q1*(mg/kg/day)-1] * (DERMAL ABS. FACTOR #1)/(BODY WEIGHT(kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)						RISK ANALYSIS						
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	
EXPOSURE VALUES NORMALIZED BY HOURS WORKED																	
TOTAL OUTSIDE	0	421/2 (ug/hour)	341.70	6.0182	12.0364	18.0568	24.0726	30.0884	1.891E-03	2.837E-03	3.783E-03	4.729E-04	6.157E-04	8.122E-04	1.122E-03	1.889E-03	
	1	46.770 (ug/hour)	374.16	6.5899	13.1798	19.7896	26.3595	31.036E-03	2.071E-03	3.107E-03	4.142E-03	5.178E-04	6.136E-04	7.103E-04	1.030E-03	1.551E-03	
	3	33689 (ug/hour)	289.51	4.7488	9.4936	14.2404	16.9873	7.459E-04	1.482E-03	2.298E-03	2.984E-03	3.730E-04	7.458E-04	1.121E-03	1.491E-03		
	7	34805 (ug/hour)	278.44	4.8040	8.8080	14.7121	19.6161	7.703E-04	1.541E-03	2.312E-03	3.083E-03	3.853E-04	7.708E-04	1.161E-03	1.544E-03		
TOTAL INSIDE	0	39032 (ug/hour)	312.25	5.4986	10.9891	16.4987	21.9983	6.842E-04	1.728E-03	2.583E-03	3.457E-03	4.321E-04	8.842E-04	1.301E-03	1.731E-03		
	1	41487 (ug/hour)	331.90	5.8455	11.8911	17.5396	23.3622	9.188E-04	1.857E-03	2.759E-03	3.674E-03	4.593E-04	9.189E-04	1.381E-03	1.841E-03		
	3	29362 (ug/hour)	234.80	4.1371	6.2742	12.4113	16.5484	6.501E-04	1.300E-03	1.950E-03	2.900E-03	3.251E-04	6.501E-04	9.751E-04	1.301E-03		
	7	31604 (ug/hour)	252.83	4.4531	8.0061	13.3592	17.8122	6.898E-04	1.400E-03	2.099E-03	2.799E-03	3.498E-04	8.898E-04	1.051E-03	1.401E-03		
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED																	
TOTAL OUTSIDE	0	152.50 (ug/lb picked)	374.54	6.5865	13.1821	19.7898	26.3682	1.937E-03	2.079E-03	3.110E-03	4.146E-03	5.183E-04	6.137E-04	1.037E-03	1.551E-03		
	1	128.48 (ug/lb picked)	310.84	5.4711	10.8422	16.4133	21.8844	8.597E-04	1.719E-03	2.579E-03	3.439E-03	4.269E-04	8.597E-04	1.291E-03	1.722E-03		
	3	118.53 (ug/lb picked)	291.12	5.1274	10.2547	15.3821	20.5084	8.057E-04	1.611E-03	2.417E-03	3.223E-03	4.057E-04	8.057E-04	1.211E-03	1.611E-03		
	7	120.82 (ug/lb picked)	296.73	5.2202	10.4524	15.8798	20.9049	8.213E-04	1.843E-03	2.484E-03	3.285E-03	4.108E-04	8.213E-04	1.231E-03	1.641E-03		
TOTAL INSIDE	0	138.86 (ug/lb picked)	341.04	6.0098	12.0132	18.0168	24.0265	9.429E-04	1.888E-03	2.832E-03	3.778E-03	4.719E-04	9.429E-04	1.421E-03	1.891E-03		
	1	111.58 (ug/lb picked)	274.03	4.8284	9.6598	14.4762	19.3056	7.584E-04	1.517E-03	2.275E-03	3.034E-03	3.782E-04	7.584E-04	1.141E-03	1.521E-03		
	3	102.99 (ug/lb picked)	255.95	4.4551	8.9102	13.3653	17.8204	7.001E-04	1.400E-03	2.100E-03	2.900E-03	3.500E-04	7.001E-04	1.051E-03	1.401E-03		
	7	109.53 (ug/lb picked)	286.01	4.7379	9.4757	14.2138	18.8515	7.445E-04	1.489E-03	2.234E-03	3.076E-03	3.723E-04	7.445E-04	1.121E-03	1.481E-03		

NOTES:

- * (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- * TOTAL OUTSIDE REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * TOTAL INSIDE REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OF EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
- * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (day)/365 (days)] * [WORK INTERVAL (yr)/(AVG. LIFETIME (yr))]
- * RISK = [LADE(mg/day) * Q1*(mg/kg/day)-1] * (DERMAL ABS. FACTOR)(100) / (BODY WEIGHT(kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR (mg/day)	LADE CALCULATIONS							RISK ANALYSIS						
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	80 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	
EXPOSURE VALUES NORMALIZED BY HOURS WORKED																	
TOTAL OUTSIDE	0	42712 (ug/hour)	341.70	2.0061	4.0121	6.0182	8.0243	6.305E-05	1.281E-04	1.881E-04	2.522E-04	3.159E-05	6.305E-05	9.48E-05	1.28E-04		
	1	46770 (ug/hour)	374.16	2.1986	4.3933	6.5899	8.7895	6.804E-05	1.381E-04	2.071E-04	2.781E-04	3.459E-05	6.904E-05	1.04E-04	1.38E-04		
	3	33689 (ug/hour)	269.51	1.9823	3.1845	4.7486	6.3281	4.973E-05	9.848E-05	1.492E-04	2.486E-05	4.973E-05	7.48E-05	9.85E-05			
	7	34895 (ug/hour)	279.44	1.6347	3.2693	4.9040	6.5387	5.138E-05	1.028E-04	1.541E-04	2.035E-04	2.569E-05	5.138E-05	7.71E-05	1.03E-04		
TOTAL INSIDE	0	39032 (ug/hour)	312.25	1.8332	3.6684	5.4898	7.3238	5.761E-05	1.152E-04	1.728E-04	2.305E-04	2.881E-05	5.761E-05	8.84E-05	1.15E-04		
	1	41487 (ug/hour)	331.90	1.9485	3.8970	5.8455	7.7941	6.124E-05	1.225E-04	1.837E-04	2.450E-04	3.082E-05	6.124E-05	9.19E-05	1.22E-04		
	3	28362 (ug/hour)	234.90	1.3780	2.7581	4.1371	5.5181	4.334E-05	6.888E-05	1.300E-04	1.734E-04	2.187E-05	4.334E-05	6.50E-05	8.87E-05		
	7	31604 (ug/hour)	252.83	1.4844	2.9887	4.4531	5.8374	4.665E-05	9.330E-05	1.400E-04	1.866E-04	2.339E-05	4.665E-05	7.00E-05	9.33E-05		
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED																	
TOTAL OUTSIDE	0	152.50 (ug/lb picked)	374.54	2.1988	4.3677	6.5985	8.7854	6.911E-05	1.386E-04	2.073E-04	2.784E-04	3.455E-05	6.911E-05	1.04E-04	1.38E-04		
	1	126.48 (ug/lb picked)	310.84	1.8237	3.6474	5.4711	7.2946	5.732E-05	1.148E-04	1.719E-04	2.269E-04	2.869E-05	5.732E-05	8.80E-05	1.15E-04		
	3	118.53 (ug/lb picked)	281.12	1.7081	3.4182	5.1274	6.8385	5.372E-05	1.074E-04	1.611E-04	2.148E-04	2.698E-05	5.372E-05	8.08E-05	1.07E-04		
	7	120.82 (ug/lb picked)	283.73	1.7421	3.4841	5.2252	6.9883	5.475E-05	1.095E-04	1.643E-04	2.180E-04	2.738E-05	5.475E-05	8.21E-05	1.10E-04		
TOTAL INSIDE	0	138.88 (ug/lb picked)	341.04	2.0022	4.0044	6.0068	8.0088	6.289E-05	1.256E-04	1.868E-04	2.517E-04	3.148E-05	6.289E-05	9.44E-05	1.26E-04		
	1	111.58 (ug/lb picked)	274.03	1.6086	3.2176	4.8284	6.4352	5.056E-05	1.011E-04	1.517E-04	2.022E-04	2.528E-05	5.056E-05	7.58E-05	1.01E-04		
	3	102.99 (ug/lb picked)	252.95	1.4850	2.9701	4.4551	5.9401	4.667E-05	9.334E-05	1.400E-04	1.887E-04	2.334E-05	4.667E-05	7.00E-05	9.33E-05		
	7	109.53 (ug/lb picked)	280.01	1.5783	3.1586	4.7373	6.3172	4.983E-05	9.927E-05	1.486E-04	2.462E-04	3.085E-05	4.983E-05	7.45E-05	9.93E-05		

NOTES:

- * (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- * "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OF EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
- * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * ANNUAL EXPOSURE (days) / 365 (days) * [WORK INTERVAL (hrs) / AVG. LIFETIME (yrs)]
- * RISK = [LADE(mg/day) * Q1 * (mg/kg/day)-1] / (DERMAL ABS. FACTOR(100)) * (DERMAL ABS. WEIGHT(kg))

REVIEW OF CHLORTHOHALON[®] FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

EXPOSURE PARAMETERS										TOXICOLOGICAL PARAMETERS												
DAILY WORK HOURS:			ANNUAL EXPOSURE (day):			TOTAL WORK INTERVAL (yr):			AVERAGE WEIGHT:			CHLORTHOHALON Q ₁ * (mg/kg/day)-1:			DERMAL ABS. FACT. #1 (%):			DERMAL ABS. FACT. #2 (%):				
			15/30/45/60			20			20			8			70			70				
DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	
EXPOSURE VALUES NORMALIZED BY HOURS WORKED																						
TOTAL OUTSIDE	0	42112 (ug/hour)	341.70	4.0121	8.0243	12.0384	18.0485	24.0621	30.0750	2.522E-04	3.783E-04	5.041E-04	6.305E-05	1.261E-04	1.361E-04	1.461E-04	1.561E-04	2.52E-04	2.62E-04	2.72E-04	2.82E-04	
	1	46770 (ug/hour)	374.16	4.3923	8.7885	13.1798	17.5730	21.381E-04	2.761E-04	4.142E-04	5.523E-04	6.904E-05	8.904E-05	9.073E-05	9.846E-05	4.073E-05	4.946E-05	1.49E-04	1.69E-04	1.79E-04	1.89E-04	
	3	33689 (ug/hour)	269.51	3.1845	6.3291	9.4836	12.6582	9.848E-05	1.089E-04	2.954E-04	3.078E-04	3.083E-04	4.110E-04	5.138E-05	5.128E-05	1.028E-04	1.128E-04	1.54E-04	2.06E-04	2.06E-04	2.06E-04	
	7	34605 (ug/hour)	278.44	3.2663	6.5387	9.8060	13.0774	1.028E-04	2.065E-04	3.083E-04	4.110E-04	5.138E-05	5.128E-05	5.138E-05	5.128E-05	1.028E-04	1.128E-04	1.54E-04	2.06E-04	2.06E-04	2.06E-04	
TOTAL INSIDE	0	39032 (ug/hour)	312.25	3.6864	7.3528	10.8891	14.8655	1.152E-04	2.305E-04	3.457E-04	4.609E-04	5.791E-05	1.152E-04	1.73E-04	1.73E-04	1.73E-04	1.73E-04	2.305E-04	2.305E-04	2.305E-04	2.305E-04	
	1	41487 (ug/hour)	331.90	3.8970	7.7841	11.6811	15.5851	1.225E-04	2.450E-04	3.674E-04	4.889E-04	6.124E-05	1.225E-04	1.84E-04	1.84E-04	1.84E-04	1.84E-04	2.450E-04	2.450E-04	2.450E-04	2.450E-04	
	3	29362 (ug/hour)	234.90	2.7581	5.5161	8.2742	11.0323	8.686E-05	1.794E-04	2.600E-04	3.467E-04	4.394E-05	8.686E-05	1.30E-04	1.73E-04	1.73E-04	1.73E-04	1.73E-04	2.600E-04	2.600E-04	2.600E-04	2.600E-04
	7	31864 (ug/hour)	253.63	2.9887	5.9374	8.6061	11.8748	9.350E-05	1.898E-04	2.709E-04	3.732E-04	4.985E-05	9.350E-05	1.40E-04	1.87E-04	1.87E-04	1.87E-04	1.87E-04	2.709E-04	2.709E-04	2.709E-04	2.709E-04
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED																						
TOTAL OUTSIDE	0	152.50 (ug/lb picked)	374.54	4.3977	8.7854	13.1931	17.5606	1.362E-04	2.764E-04	4.146E-04	5.528E-04	6.911E-05	1.362E-04	2.07E-04	2.76E-04	2.76E-04	2.76E-04	1.362E-04	2.07E-04	2.76E-04	2.76E-04	
	1	126.48 (ug/lb picked)	310.64	3.8474	7.2948	10.8422	14.5866	1.148E-04	2.293E-04	3.439E-04	4.585E-04	5.172E-05	1.148E-04	1.72E-04	2.29E-04	2.29E-04	2.29E-04	1.148E-04	1.72E-04	2.29E-04	2.29E-04	
	3	118.53 (ug/lb picked)	291.12	3.4162	6.8365	10.2547	13.6750	1.074E-04	2.149E-04	3.223E-04	4.297E-04	5.312E-05	1.074E-04	1.61E-04	2.15E-04	2.15E-04	2.15E-04	1.074E-04	1.61E-04	2.15E-04	2.15E-04	
	7	120.82 (ug/lb picked)	296.73	3.4841	6.8863	10.4524	13.8366	1.095E-04	2.190E-04	3.285E-04	4.380E-04	5.475E-05	1.095E-04	1.64E-04	2.19E-04	2.19E-04	2.19E-04	1.095E-04	1.64E-04	2.19E-04	2.19E-04	
TOTAL INSIDE	0	138.88 (ug/lb picked)	341.04	4.0044	8.0068	12.0132	16.0177	1.259E-04	2.517E-04	3.776E-04	5.034E-04	6.283E-05	1.259E-04	1.89E-04	2.52E-04	2.52E-04	2.52E-04	1.259E-04	1.89E-04	2.52E-04	2.52E-04	
	1	111.56 (ug/lb picked)	274.03	3.2176	6.4352	9.6526	12.8704	1.011E-04	2.052E-04	3.034E-04	4.045E-04	5.058E-05	1.011E-04	1.52E-04	2.05E-04	2.05E-04	2.05E-04	1.011E-04	1.52E-04	2.05E-04	2.05E-04	
	3	102.99 (ug/lb picked)	252.95	2.9770	5.9401	8.9102	11.8803	9.324E-05	1.867E-04	2.800E-04	3.724E-04	4.887E-05	9.324E-05	1.40E-04	1.87E-04	1.87E-04	1.87E-04	1.87E-04	2.800E-04	2.800E-04	2.800E-04	2.800E-04
	7	109.53 (ug/lb picked)	260.01	5.1586	6.3172	9.4757	12.6543	9.827E-05	1.885E-04	2.978E-04	3.971E-04	4.983E-05	9.827E-05	1.40E-04	1.88E-04	1.88E-04	1.88E-04	1.88E-04	2.978E-04	2.978E-04	2.978E-04	2.978E-04

NOTES:

- * (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- * "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/lb tomatoes picked) * DAILY HOURS
- * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (day)/365 (days)] * [WORK INTERVAL (yr)/AVG. LIFETIME (yr)]
- * RISK = [LADE(mg/day) * Q₁(mg/kg/day)] * (DERMAL ABS. FACTOR(100))/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY

LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR (mg/day)	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)				RISK ANALYSIS			
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS
EXPOSURE VALUES NORMALIZED BY HOURS WORKED												
TOTAL OUTSIDE	0	42712 (ug/hour)	341.70	6.0162	12.0364	18.0546	24.0726	1.861E-04	3.783E-04	5.674E-04	7.568E-04	9.457E-05
	1	46770 (ug/hour)	374.18	6.5599	13.1786	19.7686	26.3595	2.071E-04	6.213E-04	6.284E-04	1.036E-04	3.78E-04
	3	33689 (ug/hour)	269.51	4.7465	9.4838	14.2404	18.9873	1.482E-04	2.984E-04	4.479E-04	7.459E-05	4.14E-04
	7	34605 (ug/hour)	278.44	4.9040	9.8080	14.7121	19.6161	1.541E-04	3.083E-04	4.624E-04	7.708E-05	2.98E-04
TOTAL INSIDE	0	39032 (ug/hour)	312.25	5.4990	10.9891	16.4987	21.9883	1.728E-04	3.457E-04	5.165E-04	6.914E-04	8.042E-05
	1	41487 (ug/hour)	331.80	5.8455	11.6811	17.5386	23.3822	1.837E-04	3.674E-04	5.512E-04	7.349E-04	1.837E-04
	3	29362 (ug/hour)	234.90	4.1371	8.2742	12.4113	16.5484	1.300E-04	2.600E-04	3.901E-04	5.201E-04	6.501E-05
	7	31604 (ug/hour)	252.83	4.4531	9.8081	13.3592	17.8122	1.400E-04	2.798E-04	4.198E-04	5.598E-04	8.898E-05
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED												
TOTAL OUTSIDE	0	152.50 (ug/lb picked)	374.54	6.5985	13.1831	19.7366	26.3862	2.073E-04	4.148E-04	6.220E-04	8.289E-04	1.037E-04
	1	126.48 (ug/lb picked)	310.84	5.4711	10.9422	16.4133	21.8644	1.719E-04	3.439E-04	5.150E-04	6.678E-04	7.179E-05
	3	118.53 (ug/lb picked)	281.12	5.1274	10.2647	15.3821	20.5084	1.811E-04	3.223E-04	4.634E-04	6.446E-04	8.057E-05
	7	120.82 (ug/lb picked)	298.73	5.2282	10.4524	15.8796	20.9049	1.843E-04	3.285E-04	4.928E-04	6.570E-04	8.213E-05
TOTAL INSIDE	0	138.86 (ug/lb picked)	341.04	9.0088	12.0132	18.0190	24.0265	1.888E-04	3.778E-04	5.683E-04	7.551E-04	9.439E-05
	1	111.58 (ug/lb picked)	274.03	4.8284	9.6538	14.4792	19.3056	1.517E-04	3.034E-04	4.551E-04	6.087E-04	7.584E-05
	3	102.99 (ug/lb picked)	252.85	4.4551	8.9102	13.3553	17.8204	1.400E-04	2.800E-04	5.001E-04	4.201E-04	5.001E-05
	7	108.53 (ug/lb picked)	260.01	4.7373	9.4757	14.2136	18.8515	1.498E-04	2.978E-04	4.467E-04	5.858E-04	7.445E-05

NOTES:

- * (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES.
- * "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
- * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (day)/365 (days)] * [WORK INTERVAL (yr)/AVG. LIFETIME (yr)]
- * RISK = [LADE(mg/day) * Q1*(mg/kg/day)-1] * (DERMAL ABS. FACTOR/100)]/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)				DERMAL ABSORPTION FACTOR #1				DERMAL ABSORPTION FACTOR #2			
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS
EXPOSURE VALUES NORMALIZED BY HOURS WORKED																
TOTAL OUTSIDE	0	42712 (ug/hour)		341.70	2.0081	4.0121	6.0162	8.0243	1.578E-05	3.152E-05	4.729E-05	6.305E-05	3.152E-06	6.305E-06	9.48E-06	1.28E-05
	1	46770 (ug/hour)		374.16	2.1986	4.3833	6.5869	8.7865	1.726E-05	3.452E-05	5.178E-05	6.804E-05	3.452E-06	6.804E-06	1.04E-05	1.38E-05
	3	33689 (ug/hour)		269.51	1.5823	3.1645	4.7488	6.3281	1.243E-05	2.488E-05	3.730E-05	4.973E-05	2.488E-06	4.973E-06	7.48E-06	9.05E-06
	7	34805 (ug/hour)		278.44	1.6347	3.2863	4.9040	6.5387	1.264E-05	2.568E-05	3.853E-05	5.138E-05	2.568E-06	5.138E-06	7.71E-06	1.03E-05
TOTAL INSIDE	0	39032 (ug/hour)		312.25	1.8332	3.6684	5.4993	7.3326	1.440E-05	2.881E-05	4.321E-05	5.761E-05	2.881E-06	5.761E-06	8.84E-06	1.15E-05
	1	41487 (ug/hour)		331.90	1.9485	3.6670	5.8455	7.7941	1.531E-05	3.062E-05	4.593E-05	6.124E-05	3.062E-06	6.124E-06	9.18E-06	1.22E-05
	3	29362 (ug/hour)		234.90	1.3780	2.7581	4.1371	5.5181	1.084E-05	2.167E-05	3.251E-05	4.334E-05	2.167E-06	4.334E-06	6.50E-06	8.07E-06
	7	31604 (ug/hour)		252.85	1.4844	2.9887	4.4531	5.8374	1.160E-05	2.339E-05	3.499E-05	4.695E-05	2.339E-06	4.695E-06	7.00E-06	9.33E-06
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED																
TOTAL OUTSIDE	0	152.50 (ug/lb picked)		374.54	2.1986	4.3877	6.5905	8.7854	1.726E-05	3.455E-05	5.163E-05	6.911E-05	3.455E-06	6.911E-06	1.04E-05	1.38E-05
	1	120.48 (ug/lb picked)		310.84	1.8237	3.8474	5.4711	7.2946	1.433E-05	2.886E-05	4.298E-05	5.792E-05	2.886E-06	5.792E-06	8.86E-06	1.15E-05
	3	118.53 (ug/lb picked)		291.12	1.7021	3.4182	5.1274	6.8305	1.343E-05	2.688E-05	4.028E-05	5.372E-05	2.688E-06	5.372E-06	8.08E-06	1.07E-05
	7	120.82 (ug/lb picked)		298.73	1.7421	3.4841	5.2262	6.9883	1.369E-05	2.739E-05	4.106E-05	5.475E-05	2.739E-06	5.475E-06	8.21E-06	1.10E-05
TOTAL INSIDE	0	138.88 (ug/lb picked)		341.04	2.0022	4.0044	6.0068	8.0088	1.579E-05	3.146E-05	4.719E-05	6.283E-05	3.146E-06	6.283E-06	9.44E-06	1.28E-05
	1	111.58 (ug/lb picked)		274.03	1.9086	3.2178	4.8284	6.4252	1.284E-05	2.528E-05	3.792E-05	5.056E-05	2.528E-06	5.056E-06	7.58E-06	1.01E-05
	3	102.99 (ug/lb picked)		252.95	1.4850	2.9701	4.4551	5.9401	1.187E-05	2.334E-05	3.500E-05	4.867E-05	2.334E-06	4.867E-06	7.00E-06	9.33E-06
	7	109.53 (ug/lb picked)		269.01	1.5763	3.1580	4.7379	6.5172	1.241E-05	2.482E-05	3.728E-05	4.963E-05	2.482E-06	4.963E-06	7.48E-06	9.82E-06

NOTES:

- * (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- * TOTAL OUTSIDE REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * TOTAL INSIDE REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- * EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/lb tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS
- * TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- * LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (day)/365 (days)] * [WORK INTERVAL (yr)/AVG. LIFETIME (yr)]
- * RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR)(100)]/[BODY WEIGHT(kg)]

REVIEW OF CHLOROTHALONYL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

EXPOSURE PARAMETERS										TOXICOLOGICAL PARAMETERS																					
DAILY WORK HOURS:			ANNUAL EXPOSURE (day):			TOTAL WORK INTERVAL (yr):			AVERAGE LIFETIME (yr):			DERMAL ABS. FACT. #1 (%):			CHLOROTHALONYL Q1* (mg/kg/day)-1:			AVERAGE WEIGHT:													
			15/20/45/00			20			70			5			0.011			70													
EXPOSURE VALUES NORMALIZED BY HOURS WORKED										RISK ANALYSIS																					
TOTAL OUTSIDE										DERMAL ABSORPTION FACTOR #1																					
0	42712	(ug/hour)	341.70	4.0121	8.0243	12.0364	16.0485	31.152E-05	9.457E-05	1.281E-04	9.305E-06	1.261E-05	1.89E-05	2.52E-05	6	15/20/45/00	8	15/20/45/00	6												
1	48770	(ug/hour)	374.16	4.3833	8.7885	13.1178	17.5730	6.904E-05	1.036E-04	1.381E-04	6.904E-06	6.904E-05	1.381E-05	2.07E-05	2.78E-05																
3	33689	(ug/hour)	268.51	3.1845	6.3291	9.4038	12.6582	2.488E-05	4.973E-05	9.048E-05	4.973E-06	9.048E-05	1.49E-05	1.98E-05																	
7	34805	(ug/hour)	278.44	3.2693	6.5387	9.8680	13.0774	2.568E-05	5.138E-05	1.029E-04	5.138E-06	5.138E-05	1.029E-05	1.54E-05	2.08E-05																
TOTAL INSIDE										DERMAL ABSORPTION FACTOR #2																					
0	39032	(ug/hour)	312.25	3.0884	7.3228	10.8891	14.0695	2.081E-05	5.761E-05	8.842E-05	1.152E-04	5.761E-06	1.152E-05	1.73E-05	2.30E-05																
1	41487	(ug/hour)	331.90	3.8870	7.7841	11.8811	15.5881	3.062E-05	6.124E-05	9.188E-05	1.228E-04	6.124E-06	1.228E-05	1.84E-05	2.45E-05																
3	29382	(ug/hour)	234.80	2.7861	5.5161	6.2742	11.0323	2.187E-05	4.334E-05	6.501E-05	8.088E-05	4.334E-06	8.088E-05	1.30E-05	1.73E-05																
7	31604	(ug/hour)	252.83	2.9887	5.8274	8.9061	11.8748	2.333E-05	4.805E-05	6.998E-05	9.330E-05	4.805E-06	9.330E-05	1.40E-05	1.87E-05																
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED										RISK ANALYSIS																					
0	152.50	(ug/lb picked)	374.54	4.3977	8.7054	13.1891	17.5903	3.455E-05	6.811E-05	1.037E-04	1.382E-04	6.911E-06	1.382E-05	2.07E-05	2.78E-05																
1	126.48	(ug/lb picked)	310.64	3.6474	7.2848	10.9422	14.5098	2.868E-05	5.792E-05	1.148E-04	1.72E-05	5.732E-06	1.72E-05	2.28E-05																	
3	118.53	(ug/lb picked)	251.12	3.4182	6.8385	10.2547	13.8730	2.888E-05	5.372E-05	8.057E-05	1.074E-04	5.372E-06	1.074E-05	1.61E-05	2.15E-05																
7	120.82	(ug/lb picked)	266.73	3.4941	6.9883	10.4824	13.0598	2.738E-05	5.475E-05	8.213E-05	1.095E-04	5.475E-06	1.095E-05	1.64E-05	2.19E-05																
TOTAL INSIDE										DERMAL ABSORPTION FACTOR #1																					
0	138.88	(ug/lb picked)	341.04	4.0044	8.0088	12.0132	16.0177	3.148E-05	6.263E-05	9.439E-05	1.259E-04	9.233E-06	1.259E-05	1.89E-05	2.52E-05																
1	111.58	(ug/lb picked)	274.03	3.2178	6.4252	9.6528	12.8704	2.528E-05	5.058E-05	7.584E-05	1.011E-04	5.058E-06	1.011E-05	1.52E-05	2.02E-05																
3	102.88	(ug/lb picked)	252.95	2.9701	5.9401	8.9102	11.8803	2.334E-05	4.807E-05	7.001E-05	9.334E-05	4.807E-06	9.334E-05	1.40E-05	1.87E-05																
7	109.53	(ug/lb picked)	298.01	3.1560	6.3172	9.4757	12.6549	2.482E-05	4.893E-05	7.445E-05	9.927E-05	4.893E-06	9.927E-05	1.48E-05	1.98E-05																

NOTES:

*ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

TOTAL OUTSIDE REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.

TOTAL INSIDE REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.

*EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OF EXPOSURE (mg/lb tomatoes picked) * DAILY HOURS

*TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

*LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (yr)/AVG. LIFETIME (yr)].

*RISK = [LADE(mg/day) * Q1* (mg/kg/day)-1] * (DERMAL ABS. FACTOR(100)) / (BODY WEIGHT(kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISLODGEABLE RESIDUE/EXPOSURE STUDY
LADE AND CORRESPONDING RISK CALCULATIONS USING ACTUAL FIELD EXPOSURE DATA

EXPOSURE PARAMETERS				TOXICOLOGICAL PARAMETERS																
				ANNUAL EXPOSURE (days)			TOTAL WORK INTERVAL (yr)			AVERAGE WEIGHT:			CHLOROTHALONIL Q1* (mg/kg/day)-1			DERMAL ABS. FACT. #1 (%)				
				15/20/5/100			30			6			0.011			70				
				15/20/5/100			30			6			0.011			5				
DESCRIPTION STUDY EXPOSURE																				
EXPOSURE VALUES NORMALIZED BY HOURS WORKED				15 DAYS				30 DAYS				45 DAYS				60 DAYS				
TOTAL OUTSIDE				341.70	6.0182	12.0364	18.0546	24.0726	4.729E-05	8.457E-05	1.419E-04	1.891E-04	2.457E-04	3.111E-04	4.14E-05	9.457E-08	1.891E-05	2.44E-05	3.78E-05	
0 (ug/hour)				374.16	6.5899	13.1798	19.7898	26.3595	5.178E-05	1.039E-04	1.553E-04	2.071E-04	2.671E-04	3.111E-04	4.14E-05	1.036E-05	2.071E-05	2.671E-05	3.111E-05	
1 (ug/hour)				268.51	4.7498	9.4826	14.2404	18.9873	3.730E-05	7.458E-05	1.119E-04	1.492E-04	1.749E-04	2.149E-04	2.49E-05	7.458E-05	1.492E-05	1.749E-05	2.149E-05	
3 (ug/hour)				278.44	4.9040	9.8090	14.7121	19.6161	3.853E-05	7.709E-05	1.158E-04	1.541E-04	1.541E-04	1.541E-04	3.08E-05	7.709E-05	1.541E-05	1.541E-05	3.08E-05	
7 (ug/hour)				312.25	5.4983	10.9881	16.4987	21.9863	4.321E-05	8.642E-05	1.288E-04	1.728E-04	2.042E-04	2.598E-04	3.48E-05	8.642E-05	1.728E-05	2.042E-05	2.598E-05	
TOTAL INSIDE				39932	41487	52932	63110	73386	23.3822	4.583E-05	9.168E-05	1.378E-04	1.837E-04	2.186E-04	2.797E-05	3.677E-05	1.837E-05	2.186E-05	2.797E-05	
0 (ug/hour)				331.90	5.8455	11.6811	17.5396	23.4113	6.2742	12.4113	16.5484	2.251E-05	6.1501E-05	9.752E-05	1.300E-04	1.98E-05	6.1501E-05	1.300E-05	1.98E-05	2.80E-05
1 (ug/hour)				234.90	4.1371	5.9081	8.4531	13.3592	17.8122	3.498E-05	9.988E-05	1.359E-04	1.400E-04	1.400E-04	1.400E-04	2.10E-05	9.988E-05	1.400E-05	1.400E-05	2.10E-05
EXPOSURE VALUES NORMALIZED BY POUNDS PICKED				374.54	0.5985	13.1831	19.7898	26.3662	5.163E-05	1.037E-04	1.555E-04	2.073E-04	2.673E-04	3.111E-04	4.15E-05	9.457E-08	1.891E-05	2.44E-05	3.78E-05	
TOTAL OUTSIDE				152.50	(ug/lb picked)	310.84	5.4711	10.8422	16.4133	21.8844	4.299E-05	8.597E-05	1.208E-04	1.719E-04	2.198E-04	2.58E-05	3.44E-05	8.597E-08	1.719E-05	2.198E-05
0 (ug/lb picked)				291.12	5.1274	10.2547	15.3821	20.5084	4.029E-05	8.057E-05	1.208E-04	1.811E-04	2.181E-04	2.42E-05	3.22E-05	8.057E-08	1.811E-05	2.181E-05	2.42E-05	
1 (ug/lb picked)				296.73	5.2282	10.4524	15.6768	20.8048	4.108E-05	6.212E-05	1.235E-04	1.843E-04	1.843E-04	1.843E-04	3.28E-05	6.212E-05	1.843E-05	1.843E-05	3.28E-05	
TOTAL INSIDE				341.04	6.0088	12.0132	18.0198	24.0285	4.719E-05	9.439E-05	1.416E-04	1.888E-04	2.037E-04	2.598E-04	3.111E-05	9.439E-05	1.888E-05	2.037E-05	2.598E-05	
0 (ug/lb picked)				274.03	4.6284	9.6528	14.4792	19.3058	3.792E-05	7.584E-05	1.139E-04	1.517E-04	1.517E-04	1.517E-04	2.037E-05	7.584E-05	1.517E-05	1.517E-05	2.037E-05	
1 (ug/lb picked)				252.95	4.4551	9.0102	13.3653	17.8204	3.500E-05	7.001E-05	1.060E-04	1.400E-04	1.400E-04	1.400E-04	2.037E-05	7.001E-05	1.400E-05	1.400E-05	2.037E-05	
3 (ug/lb picked)				289.01	4.7378	9.4757	14.2130	18.9515	3.728E-05	7.445E-05	1.117E-04	1.499E-04	1.499E-04	1.499E-04	2.23E-05	7.445E-05	1.499E-05	1.499E-05	2.23E-05	

NOTES:

- (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- "TOTAL OUTSIDE" REFERS TO VALUES BASED ON THE OUTSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- "TOTAL INSIDE" REFERS TO VALUES BASED ON THE INSIDE PATCH, NONPROTECTED GLOVE AND INHALATION DATA.
- EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/lb tomatoes picked) * DAILY HOURS
- TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/265 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]
- RISK = [LADE(mg/day) * Q1* (mg/kg/day-1) * (DERMAL ABS. FACTOR/100)]/[BODY WEIGHT(kg)]

ATTACHMENT E

**LADEs/RISKS
FOR PREDICTED EXPOSURES**

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY

LAE/RESRISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LAE/RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FDR (ug/cm²) LEVELS

EXPOSURE PARAMETERS		LAERISK CALCULATIONS										FRRK ANALYSIS										
DESCRIPTION	STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	15 DAYS			30 DAYS			45 DAYS			60 DAYS			15 DAYS			30 DAYS		
TOTAL INSIDE	0	38207.5	(ug/hour)	305.55	3.5580	7.1773	10.7650	1.128E-03	5.840E-04	1.128E-03	2.258E-03	4.492E-04	6.840E-04	1.128E-03	2.258E-03	2.258E-03	2.744E-03	5.488E-04	6.238E-04	1.128E-03	1.128E-03	1.128E-03
1	37176.4	(ug/hour)	297.41	3.4921	6.9842	10.4763	13.8604	5.448E-04	1.068E-03	1.068E-03	2.186E-03	4.301E-04	6.448E-04	1.068E-03	2.186E-03	2.186E-03	2.124E-03	4.037E-04	5.335E-04	9.03E-04	1.068E-03	1.068E-03
2	36145.1	(ug/hour)	286.16	3.3652	6.7905	10.1857	13.5609	5.325E-04	1.037E-03	1.037E-03	2.073E-03	4.035E-04	5.183E-04	1.037E-03	2.073E-03	2.073E-03	2.073E-03	4.035E-04	5.183E-04	7.77E-04	1.037E-03	1.037E-03
3	35113.9	(ug/hour)	280.91	3.2684	5.9867	9.8651	13.1805	5.163E-04	1.037E-03	1.037E-03	2.073E-03	4.035E-04	5.183E-04	1.037E-03	2.073E-03	2.073E-03	2.073E-03	4.035E-04	5.183E-04	7.77E-04	1.037E-03	1.037E-03
4	34082.6	(ug/hour)	272.86	3.2019	6.4030	9.0045	12.2000	5.030E-04	1.036E-03	1.036E-03	2.072E-03	4.034E-04	5.182E-04	1.036E-03	2.072E-03	2.072E-03	2.072E-03	4.034E-04	5.182E-04	7.75E-04	1.036E-03	1.036E-03
5	33051.4	(ug/hour)	264.41	3.1048	6.2063	6.3136	12.4165	4.879E-04	9.757E-04	9.757E-04	1.964E-03	3.901E-03	4.684E-04	9.757E-04	1.964E-03	1.964E-03	2.438E-03	4.878E-04	7.32E-04	9.757E-04	9.757E-04	9.757E-04
6	32020.2	(ug/hour)	256.18	3.0078	6.0195	6.0233	12.0311	4.728E-04	9.453E-04	9.453E-04	1.861E-03	3.801E-03	4.418E-04	9.453E-04	1.861E-03	1.861E-03	2.385E-03	4.728E-04	7.09E-04	9.453E-04	9.453E-04	9.453E-04
7	30988.9	(ug/hour)	247.91	2.9108	5.8216	6.7327	11.8436	4.674E-04	9.148E-04	9.148E-04	1.801E-03	3.730E-03	4.372E-04	9.148E-04	1.801E-03	1.801E-03	2.307E-03	4.574E-04	6.98E-04	9.148E-04	9.148E-04	9.148E-04
8	28957.7	(ug/hour)	239.86	2.6140	5.6281	6.4421	6.1256	4.422E-04	8.844E-04	8.844E-04	1.709E-03	3.621E-03	4.211E-04	8.844E-04	1.709E-03	1.709E-03	2.185E-03	4.422E-04	6.63E-04	8.844E-04	8.844E-04	8.844E-04
9	28526.5	(ug/hour)	231.41	2.1172	5.4343	6.1615	10.8080	4.270E-04	8.540E-04	8.540E-04	1.620E-03	3.420E-03	4.020E-04	8.540E-04	1.620E-03	1.620E-03	2.108E-03	4.270E-04	6.40E-04	8.540E-04	8.540E-04	8.540E-04
10	27865.2	(ug/hour)	223.16	2.0233	5.2006	5.9206	10.4612	4.118E-04	8.235E-04	8.235E-04	1.587E-03	3.240E-03	3.801E-04	8.235E-04	1.587E-03	1.587E-03	2.088E-03	4.118E-04	6.18E-04	8.235E-04	8.235E-04	8.235E-04
11	26984.0	(ug/hour)	214.91	2.5324	5.0469	5.7570	10.0837	3.965E-04	7.811E-04	7.811E-04	1.548E-03	3.145E-03	3.714E-04	7.811E-04	1.548E-03	1.548E-03	2.040E-03	3.965E-04	5.95E-04	7.811E-04	7.811E-04	7.811E-04
12	25832.7	(ug/hour)	206.86	2.4266	4.8631	5.2797	7.7062	3.826E-04	7.628E-04	7.628E-04	1.502E-03	3.045E-03	3.608E-04	7.628E-04	1.502E-03	1.502E-03	1.907E-03	3.826E-04	5.72E-04	7.628E-04	7.628E-04	7.628E-04
13	24910.5	(ug/hour)	198.11	2.3297	4.6894	6.9891	9.3108	3.691E-04	7.322E-04	7.322E-04	1.464E-03	3.008E-03	3.608E-04	7.322E-04	1.464E-03	1.464E-03	1.869E-03	3.691E-04	5.48E-04	7.322E-04	7.322E-04	7.322E-04
14	23770.3	(ug/hour)	190.18	2.2228	4.4656	6.6005	6.8013	3.505E-04	7.017E-04	7.017E-04	1.420E-03	3.003E-03	3.603E-04	7.017E-04	1.420E-03	1.420E-03	1.834E-03	3.505E-04	5.28E-04	7.017E-04	7.017E-04	7.017E-04
15	22739.0	(ug/hour)	181.91	2.1380	4.2718	6.0470	6.5438	3.267E-04	6.713E-04	6.713E-04	1.387E-03	3.002E-03	3.434E-04	6.713E-04	1.387E-03	1.387E-03	1.787E-03	3.267E-04	5.05E-04	6.713E-04	6.713E-04	6.713E-04
16	21707.8	(ug/hour)	173.86	2.0381	4.0782	6.1173	6.1173	3.204E-04	6.403E-04	6.403E-04	1.352E-03	3.001E-03	3.204E-04	6.403E-04	1.352E-03	1.352E-03	1.752E-03	3.204E-04	4.81E-04	6.403E-04	6.403E-04	6.403E-04
17	20876.6	(ug/hour)	165.41	1.8422	3.8844	5.8287	7.7889	3.045E-04	6.104E-04	6.104E-04	1.318E-03	3.000E-03	3.000E-04	6.104E-04	1.318E-03	1.318E-03	1.698E-03	3.045E-04	4.58E-04	6.104E-04	6.104E-04	6.104E-04
18	19645.3	(ug/hour)	157.16	1.8454	3.6007	6.5391	7.3014	2.800E-04	5.800E-04	5.800E-04	1.280E-03	3.000E-03	2.700E-04	5.800E-04	1.280E-03	1.280E-03	1.660E-03	2.800E-04	4.36E-04	5.800E-04	5.800E-04	5.800E-04
19	18614.1	(ug/hour)	148.91	1.7485	3.4970	5.2455	6.9893	2.749E-04	5.498E-04	5.498E-04	1.250E-03	3.000E-03	2.700E-04	5.498E-04	1.250E-03	1.250E-03	1.630E-03	2.749E-04	4.12E-04	5.498E-04	5.498E-04	5.498E-04
20	17582.6	(ug/hour)	140.86	1.6518	3.3032	5.0518	6.5045	2.695E-04	5.191E-04	5.191E-04	1.220E-03	3.000E-03	2.695E-04	5.191E-04	1.220E-03	1.220E-03	1.610E-03	2.695E-04	3.98E-04	5.191E-04	5.191E-04	5.191E-04
21	16551.6	(ug/hour)	132.41	1.5547	3.1085	4.8942	6.2160	2.643E-04	4.886E-04	4.886E-04	1.190E-03	3.000E-03	2.643E-04	4.886E-04	1.190E-03	1.190E-03	1.580E-03	2.643E-04	3.98E-04	4.886E-04	4.886E-04	4.886E-04
22	15520.4	(ug/hour)	124.16	1.4579	2.9156	4.3726	6.6315	2.602E-04	4.593E-04	4.593E-04	1.160E-03	3.000E-03	2.602E-04	4.593E-04	1.160E-03	1.160E-03	1.540E-03	2.602E-04	3.94E-04	4.593E-04	4.593E-04	4.593E-04
23	14489.1	(ug/hour)	115.91	1.3610	2.7220	4.0290	5.4441	2.549E-04	4.277E-04	4.277E-04	1.130E-03	3.000E-03	2.549E-04	4.277E-04	1.130E-03	1.130E-03	1.520E-03	2.549E-04	3.90E-04	4.277E-04	4.277E-04	4.277E-04
24	13457.9	(ug/hour)	107.86	1.2641	2.5263	3.7924	5.0568	2.507E-04	3.973E-04	3.973E-04	1.090E-03	3.000E-03	2.507E-04	3.973E-04	1.090E-03	1.090E-03	1.470E-03	2.507E-04	3.87E-04	3.973E-04	3.973E-04	3.973E-04
25	12426.6	(ug/hour)	99.41	1.1673	2.3448	3.5018	4.9000	1.234E-04	3.098E-04	3.098E-04	1.050E-03	3.000E-03	2.149E-04	3.098E-04	1.050E-03	1.050E-03	1.420E-03	2.149E-04	3.82E-04	3.098E-04	3.098E-04	3.098E-04
26	11395.4	(ug/hour)	91.16	1.0704	2.1406	3.2112	4.2618	1.189E-04	2.703E-04	2.703E-04	1.010E-03	3.000E-03	2.149E-04	2.703E-04	1.010E-03	1.010E-03	1.390E-03	2.703E-04	3.82E-04	2.703E-04	2.703E-04	2.703E-04
27	10364.2	(ug/hour)	82.91	9.9735	1.9471	2.9208	3.8642	1.150E-04	2.508E-04	2.508E-04	9.80E-04	3.000E-03	2.149E-04	2.508E-04	9.80E-04	9.80E-04	1.360E-03	2.508E-04	3.82E-04	2.508E-04	2.508E-04	2.508E-04
28	9332.9	(ug/hour)	74.86	9.8767	1.7533	2.6320	3.5067	1.127E-04	2.379E-04	2.379E-04	9.50E-04	3.000E-03	2.149E-04	2.379E-04	9.50E-04	9.50E-04	1.330E-03	2.379E-04	3.82E-04	2.379E-04	2.379E-04	2.379E-04
29	8201.7	(ug/hour)	66.41	7.7798	1.5606	2.3448	2.7318	1.072E-04	2.149E-04	2.149E-04	9.20E-04	3.000E-03	2.149E-04	2.149E-04	9.20E-04	9.20E-04	1.320E-03	2.149E-04	3.82E-04	2.149E-04	2.149E-04	2.149E-04
30	7227.5	(ug/hour)	58.16	8.8916	1.3721	1.7582	2.3443	9.210E-05	1.642E-04	1.642E-04	8.90E-04	3.000E-03	2.149E-04	1.642E-04	8.90E-04	8.90E-04	1.310E-03	1.642E-04	3.82E-04	1.642E-04	1.642E-04	1.642E-04
31	6239.2	(ug/hour)	49.91	8.5861	1.1721	1.4676	0.9764	8.49E-05	1.537E-04	1.537E-04	8.10E-04	3.000E-03	2.149E-04	1.537E-04	8.10E-04	8.10E-04	1.300E-03	1.537E-04	3.82E-04	1.537E-04	1.537E-04	1.537E-04
32	5208.0	(ug/hour)	41.86	8.4982	1.0720	1.3770	0.9747	8.10E-05	1.469E-04	1.469E-04	7.80E-04	3.000E-03	2.149E-04	1.469E-04	7.80E-04	7.80E-04	1.290E-03	1.469E-04	3.82E-04	1.469E-04	1.469E-04	1.469E-04
33	4176.7	(ug/hour)	33.41	8.3823	0.9747	1.1770	0.9747	7.84E-05	1.395E-04	1.395E-04	7.50E-04	3.000E-03	2.149E-04	1.395E-04	7.50E-04	7.50E-04	1.280E-03	1.395E-04	3.82E-04	1.395E-04	1.395E-04	1.395E-04
34	3145.5	(ug/hour)	25.16	8.2855	0.9694	1.1819	0.9694	7.48														

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCATEABLE RESIDUE/EXPOSURE STUDY EXPOSURE CALCULATIONS USING EXPOSURES BASED ON THE RELATIVE LADERISK VALUES BASED ON INSIDE EXPOSURE LEVELS

PA SUPPORT 7.5K 2110.003
VERSAR INC. 811593 JLD
EXPOSURE STUDY
EVALUATION OF CHLOROTHALONYL FOAM DISLOCATEABLE RESIDUE/EXPOSURE STUDY
LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVELS
ALL LADE/RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

TOXICOLOGICAL PARAMETERS																	
EXPOSURE PARAMETERS		DAILY WORK HOURS:		ANNUAL EXPOSURE (day)		TOTAL WORK INTERVAL (yr)		AVERAGE WEIGHT:									
		8		15/30/45/90		30		70									
		ADULT ABS. FACT. #1 (%)		100		100		50									
		DERMAL ABS. FACT. #2 (%)		50		50		50									
EXPOSURE DESCRIPTION																	
EXPOSURES CALCULATED BASED ON FDR (ug/cm ²) LEVELS																	
EXPOSURE LEVELS																	
STUDY DAY	EXPOSURE LEVEL	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)													
0	30207.6	0	305.06	15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	90 DAYS								
1	31176.4	5.2632	5.2632	16.1504	21.5330	8.4600E-04	1.692E-03	2.558E-03	3.384E-03								
2	36145.1	10.8920	10.8920	15.7145	20.3714	8.003E-03	1.646E-03	2.409E-03	3.265E-03								
3	35113.9	4.6476	4.6476	14.8427	19.7802	7.775E-04	1.601E-03	2.401E-03	3.200E-03								
4	34082.6	4.8023	4.8023	14.4086	19.2050	7.548E-04	1.569E-03	2.392E-03	3.190E-03								
5	33051.4	4.6570	4.6570	13.1390	18.7909	7.318E-04	1.536E-03	2.346E-03	3.136E-03								
6	32020.2	4.5116	4.5116	13.5348	18.0466	7.080E-04	1.501E-03	2.293E-03	3.086E-03								
7	30986.9	4.3863	4.3863	13.0860	17.4654	6.861E-04	1.467E-03	2.245E-03	3.036E-03								
8	29857.7	4.2210	4.2210	12.8631	16.8842	6.653E-04	1.432E-03	2.195E-03	3.036E-03								
9	28926.5	4.0757	4.0757	12.7715	16.3000	6.465E-04	1.397E-03	2.145E-03	2.985E-03								
10	27795.2	3.9304	3.9304	12.7013	16.2116	6.278E-04	1.363E-03	2.095E-03	2.935E-03								
11	26864.0	3.7851	3.7851	12.5703	15.9554	6.140E-04	1.330E-03	2.045E-03	2.885E-03								
12	25832.7	3.6396	3.6396	7.2797	10.9195	4.556E-04	1.297E-03	2.269E-03	2.806E-03								
13	24801.5	3.4945	3.4945	10.4830	13.8711	5.481E-04	1.264E-03	2.187E-03	2.746E-03								
14	23770.3	3.2492	3.2492	10.0477	13.3960	5.293E-04	1.230E-03	2.156E-03	2.626E-03								
15	22739.0	3.0039	3.0039	9.6116	12.8187	5.039E-04	1.197E-03	2.116E-03	2.517E-03								
16	21717.6	2.7586	2.7586	9.1759	12.2245	4.806E-04	8.619E-04	1.922E-03	2.403E-03								
17	20786.6	2.5133	2.5133	8.7400	11.0721	4.579E-04	8.173E-04	1.737E-03	2.286E-03								
18	19845.3	2.2780	2.2780	8.3381	10.4204	4.350E-04	8.702E-04	1.549E-03	2.175E-03								
19	18814.1	1.8227	1.8227	5.2455	7.8682	10.4600	4.121E-04	8.248E-04	1.362E-03								
20	17582.8	1.4046	2.4774	4.8549	7.4323	8.9037	3.863E-04	7.798E-04	1.173E-03								
21	16551.6	2.3221	4.8042	9.8904	12.3021	4.806E-04	7.330E-04	1.832E-03	2.403E-03								
22	15520.4	1.2145	4.3739	6.5005	8.7473	4.743E-04	8.723E-04	1.317E-03	2.178E-03								
23	14489.1	2.0415	4.0630	6.1246	8.1861	5.200E-04	8.411E-04	1.289E-03	2.105E-03								
24	13457.9	1.3692	3.7924	5.8657	7.5948	5.980E-04	8.839E-04	1.192E-03	2.090E-03								
25	12426.8	99.41	5.2527	3.5016	5.2527	1.010E-03	1.947E-04	3.972E-04	4.191E-04								
26	11395.4	91.16	1.0556	5.2112	4.8186	6.422E-04	5.040E-04	7.580E-04	5.500E-04								
27	10364.2	82.91	1.4003	2.9235	4.3636	6.9415	2.289E-04	4.500E-04	6.000E-04								
28	9332.9	74.00	2.0415	2.8300	3.9450	5.200E-04	8.199E-04	1.032E-03	2.048E-03								
29	8301.7	66.41	1.1887	2.3394	5.0581	4.670E-04	7.392E-04	9.181E-03	2.076E-04								
30	7270.5	56.16	1.0244	2.0485	3.0742	4.067E-04	8.220E-04	8.048E-03	1.810E-04								
31	6239.2	49.91	0.8791	1.7782	2.8373	3.5184	1.361E-04	7.265E-04	4.144E-04								
32	5208.0	41.66	0.7336	1.4878	2.2014	2.9359	1.153E-04	5.459E-04	4.617E-04								
33	4176.7	33.41	0.5885	1.1770	1.7765	2.3440	1.242E-03	4.824E-03	1.386E-04								
34	3145.5	25.16	0.4432	0.8892	1.2926	1.7728	2.098E-03	3.462E-03	1.386E-04								
35	2114.3	34.15	0.3279	0.9817	1.4432	1.8305	1.303E-03	3.941E-03	1.386E-04								

NOTES

- (high) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
 $\text{EXPOSURE} \text{ (mg/day)} = \text{EXPOSURE} \text{ (mg/hour)} * \text{DAILY HOURS OF EXPOSURE (mg/hour)} * \text{DAILY-HOUR}$
 $\text{TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (207 +/- 52 mg/hour).}$

TOXICOLOGICAL PARAMETERS									
		CHLOROTHALONIL Q1* (mg/mg/day):		0.011					
		AVERAGE WEIGHT:		70					
		DERMAL ABS. FACT. #1 (%):		20					
		DERMAL ABS. FACT. #2 (%):		10					
EXPOSURE PARAMETERS									
DAILY WORK HOURS:		8		15/30/45/60		10		70	
ANNUAL EXPOSURE (day):		15/30/45/60		70		307		307	
RISK ANALYSIS									
DERMAL ABSORPTION FACTOR #1		0.000E+00		0.000E+00		0.000E+00		0.000E+00	
DERMAL ABSORPTION FACTOR #2		0.000E+00		0.000E+00		0.000E+00		0.000E+00	

NOTES:

* (kg/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

• EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/bt tomatoe picked) * PICKING RATE (bt/hour) * DAILY HOURS

• TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (day)/365 (days)] * [WORK INTERVAL (hrs)/AVG. LIFETIME (hrs)]

* RISK = [LADE (mg/day) * Q1*(mg/kg/day)* (DERMAL ABS. FACTOR #1)(DERMAL ABS. FACTOR #2)]

TOXICOLOGICAL PARAMETERS																	
EXPOSURE PARAMETERS		DAILY WORK HOURS:		CHLOROTHALONIL ON-TIME (mg/mg/day):		AVERAGE WEIGHT (%):		0.011									
		8		20		70		20									
DAILY EXPOSURE (day):		15/30/45/60		DERMAL ABS. FACT. #1 (%):		DERMAL ABS. FACT. #2 (%):		10									
TOTAL WORK INTERVAL (hr):		20		DERMAL ABS. FACT. #1 (%):		DERMAL ABS. FACT. #2 (%):		10									
AVERAGE LIFETIME (yrs):		70															
AVERAGE PICKING RATE (lb/hour):		307															
RISK ANALYSIS																	
LADER CALCULATIONS					DERMAL ABSORPTION FACTOR #1												
STUDY		EXPOSURE LEVELS		EXPOSURE FACTOR (mg/day)		EXPOSURE (mg/day)		DERMAL ABSORPTION FACTOR #1									
DAY		15 DAYS		30 DAYS		45 DAYS		60 DAYS									
		(mg/day)		(mg/day)		(mg/day)		(mg/day)									
EXPOSURES CALCULATED BASED ON FDR (ug/cm ²) LEVELS																	
DESCRIPTION																	
ALL LADERISK VALUES BASED ON INSIDE EXPOSURE LEVELS																	
1.011 CT AL. INSIDE																	
0	30.207	8	(ug/hour)	305.88	7.1779	10.7080	14.3520	1.128E-04	4.312E-04								
1	37.178	4	(ug/hour)	3.4921	10.4763	11.9004	1.088E-04	2.206E-04	1.65E-04								
2	36.145	1	(ug/hour)	269.18	3.3852	10.1857	13.5000	1.067E-04	2.13E-04	1.60E-04							
3	35.113	5	(ug/hour)	280.91	3.2884	9.8661	13.1835	1.037E-04	2.07E-04	1.55E-04							
4	34.092	6	(ug/hour)	272.86	3.2015	9.6045	12.8000	1.008E-04	2.01E-04	1.51E-04							
5	33.051	4	(ug/hour)	264.41	3.1046	9.3138	12.5797	9.757E-05	1.94E-04	1.48E-04							
6	32.020	2	(ug/hour)	255.16	3.0078	9.0223	12.0511	9.453E-05	1.90E-04	1.45E-04							
7	30.988	9	(ug/hour)	247.91	2.9106	8.7327	11.9436	9.148E-05	1.86E-04	1.43E-04							
8	29.957	7	(ug/hour)	239.86	2.8140	8.4281	11.2561	8.844E-05	1.82E-04	1.39E-04							
9	28.926	5	(ug/hour)	231.41	2.7123	8.1515	10.8660	8.540E-05	1.78E-04	1.35E-04							
10	27.895	2	(ug/hour)	223.16	2.6206	7.8008	10.4312	8.225E-05	1.74E-04	1.32E-04							
11	26.864	0	(ug/hour)	214.91	2.5224	5.0468	7.5703	10.0637	7.931E-05	1.29E-04							
12	25.832	7	(ug/hour)	206.86	2.4286	4.8531	7.2797	9.7002	7.628E-05	1.25E-04							
13	24.801	5	(ug/hour)	198.41	2.3287	4.6584	9.8081	9.3186	7.322E-05	1.21E-04							
14	23.770	3	(ug/hour)	190.16	2.2328	4.4656	8.8865	9.9313	7.017E-05	1.17E-04							
15	22.738	0	(ug/hour)	181.81	2.1380	4.2716	8.4078	9.5436	6.713E-05	1.13E-04							
16	21.707	6	(ug/hour)	173.86	2.0361	4.0782	6.1173	8.1584	6.408E-05	1.09E-04							
17	20.676	8	(ug/hour)	165.41	1.9422	3.8844	5.8267	8.104E-05	6.104E-05	1.05E-04							
18	19.645	3	(ug/hour)	157.16	1.8454	3.8027	5.5361	7.3814	5.800E-05	5.800E-05							
19	18.614	1	(ug/hour)	149.81	1.7485	3.4870	5.2453	6.8636	5.459E-05	5.459E-05							
20	17.582	6	(ug/hour)	140.86	1.6510	3.3032	4.9549	6.0035	5.191E-05	5.191E-05							
21	16.551	4	(ug/hour)	132.41	1.5547	3.1095	4.8442	6.2190	4.808E-05	4.773E-05							
22	15.520	2	(ug/hour)	124.16	1.4579	2.9153	4.3735	5.8215	4.502E-05	4.502E-05							
23	14.489	1	(ug/hour)	115.81	1.3610	2.7220	4.0430	5.4441	4.277E-05	4.277E-05							
24	13.457	0	(ug/hour)	107.86	1.2641	2.5283	3.7924	5.0596	3.975E-05	3.975E-05							
25	12.426	6	(ug/hour)	99.41	1.1673	2.3346	3.5018	4.6881	3.698E-05	3.698E-05							
26	11.395	4	(ug/hour)	91.16	1.0704	2.1400	3.2112	4.2190	3.394E-05	3.394E-05							
27	10.364	2	(ug/hour)	82.91	0.9735	1.9471	2.9204	3.8042	3.000E-05	3.000E-05							
28	9.332	0	(ug/hour)	74.66	0.8767	1.7533	2.6300	3.5057	2.759E-05	2.759E-05							
29	8.301	7	(ug/hour)	66.41	0.7796	1.5596	2.3384	3.1193	2.452E-05	2.452E-05							
30	7.270	5	(ug/hour)	58.16	0.6829	1.3349	2.0480	2.7318	2.146E-05	2.146E-05							
31	6.239	2	(ug/hour)	49.81	0.5861	1.1721	1.7852	2.3443	1.842E-05	1.842E-05							
32	5.206	0	(ug/hour)	41.66	0.4892	0.9794	1.4676	1.9586	1.537E-05	1.537E-05							
33	4.178	7	(ug/hour)	33.41	0.3923	0.7847	1.1770	1.523E-05	1.233E-05	1.05E-05							
34	3.145	5	(ug/hour)	25.16	0.2953	0.5909	0.8604	1.1619	9.286E-06	1.04E-05							
35	2.114	3	(ug/hour)	16.91	0.1986	0.3672	0.5984	0.7044	6.242E-06	9.30E-06							

100

NOTES

$\text{PPM} = \frac{\text{ug/m}^3}{\text{hour}} \times 1000$

* EXPOSURE (mg/day) = DAILY HOURS OR EXPOSURE (mg/hour) * PICKING RATE (lb/hour - DAILY HOURS)

RONALD PICKINS RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED

• WORK INTERVAL (min) / AVG. LIFETIME (min) = ANNUAL EXPOSURE (days per year)

FACTORY/100% ACCY WEIGHT/STL

HISK = [HIS/CEER/day] - C1-HIS/CEER/day

PPA SUPPORT TASK 2110 D03
 VERSAR, INC. #1593 JLD
 REVIEW OF CHLOROTHALONIL FOAM DISLOCGEABLE RESIDUE/EXPOSURE STUDY

LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
 ALL LADERISK CALCULATED BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FDR (ug/cm²) LEVELS

DESCRIPTION	STUDY	EXPOSURE	EXPOSURE	LADE CALCULATIONS	DERMAL ABSORPTION FACTOR #1						RISK ANALYSIS						
					DAY	LEVELS	FACTOR	(mg/day)	15 DAYS	45 DAYS	90 DAYS	180 DAYS	300 DAYS	480 DAYS	600 DAYS	180 DAYS	300 DAYS
TOTAL INSIDE	0	36207.6	(ug/hour)	305.66	5.3835	10.7696	18.1504	21.5336	1.86E-04	3.26E-04	5.36E-04	8.76E-04	1.40E-03	2.15E-03	3.28E-04	3.38E-04	3.54E-04
	1	37176.4	(ug/hour)	287.41	5.2382	10.4763	19.7145	20.8526	1.64E-04	3.28E-04	4.93E-04	8.56E-04	1.23E-03	1.84E-03	2.47E-04	3.28E-04	3.28E-04
	2	36145.1	(ug/hour)	286.10	5.0929	10.1857	15.2786	20.3714	1.50E-04	3.20E-04	4.80E-04	8.40E-04	1.00E-03	1.60E-03	2.40E-04	3.20E-04	3.20E-04
	3	35113.9	(ug/hour)	280.91	4.9476	8.8691	14.8427	18.7002	1.55E-04	3.11E-04	4.85E-04	8.22E-04	1.05E-03	1.65E-03	2.35E-04	3.11E-04	3.11E-04
	4	34086.6	(ug/hour)	272.86	4.8022	8.0045	14.4006	16.2930	1.50E-04	3.01E-04	4.59E-04	8.02E-04	1.00E-03	1.50E-03	2.25E-04	3.02E-04	3.02E-04
	5	33051.4	(ug/hour)	264.41	4.8570	8.3136	13.8706	18.8276	1.48E-04	2.92E-04	4.39E-04	8.80E-04	1.05E-03	1.48E-03	2.02E-04	2.83E-04	2.83E-04
	6	32020.2	(ug/hour)	256.16	4.5116	9.0233	13.5346	18.0498	1.41E-04	2.80E-04	4.25E-04	8.67E-04	1.00E-03	1.41E-03	2.15E-04	2.84E-04	2.84E-04
	7	30860.9	(ug/hour)	247.91	4.3863	8.7327	13.0860	17.4654	1.37E-04	2.74E-04	4.11E-04	8.49E-04	9.91E-03	1.37E-03	2.08E-04	2.74E-04	2.74E-04
	8	29657.7	(ug/hour)	236.06	4.2210	8.4421	12.9831	16.8842	1.32E-04	2.65E-04	3.98E-04	8.30E-04	9.63E-03	1.32E-03	1.92E-04	2.66E-04	2.66E-04
	9	28628.5	(ug/hour)	231.41	4.0757	8.1515	12.8272	16.9200	1.29E-04	2.59E-04	3.84E-04	8.19E-04	9.40E-03	1.29E-03	1.92E-04	2.56E-04	2.56E-04
	10	27095.2	(ug/hour)	223.16	3.9304	7.8608	11.7913	15.7216	1.23E-04	2.47E-04	3.70E-04	8.49E-04	9.17E-03	1.23E-03	1.85E-04	2.47E-04	2.47E-04
	11	26064.0	(ug/hour)	214.91	3.7851	7.5703	11.5554	15.1406	1.19E-04	2.37E-04	3.59E-04	8.78E-04	8.94E-03	1.19E-03	1.78E-04	2.38E-04	2.38E-04
	12	25632.7	(ug/hour)	206.86	3.6386	7.2797	10.9165	14.5564	1.14E-04	2.28E-04	3.43E-04	8.57E-04	8.72E-03	1.14E-03	1.72E-04	2.28E-04	2.28E-04
	13	24801.5	(ug/hour)	190.41	3.4945	6.8691	10.4826	13.9781	1.09E-04	2.19E-04	3.29E-04	8.30E-04	8.48E-03	1.09E-03	1.68E-04	2.20E-04	2.20E-04
	14	23770.3	(ug/hour)	190.16	3.3482	6.6095	10.0477	13.3966	1.05E-04	2.10E-04	3.19E-04	8.10E-04	8.23E-03	1.05E-03	1.65E-04	2.11E-04	2.11E-04
	15	22739.0	(ug/hour)	181.91	3.2039	6.4070	9.6116	12.8157	1.01E-04	2.04E-04	3.02E-04	7.93E-04	8.07E-03	1.01E-03	1.61E-04	2.01E-04	2.01E-04
	16	21707.8	(ug/hour)	173.06	3.0586	6.1173	9.1756	12.2345	9.81E-05	1.92E-04	2.88E-04	7.65E-04	8.00E-03	9.81E-03	1.44E-04	1.92E-04	1.92E-04
	17	20076.5	(ug/hour)	165.41	2.9133	5.8267	8.7400	11.6532	9.15E-05	1.83E-04	2.74E-04	7.39E-04	7.87E-03	9.15E-03	1.37E-04	1.85E-04	1.85E-04
	18	19645.3	(ug/hour)	157.16	2.7850	5.5361	8.3041	11.0721	7.670E-05	1.74E-04	2.61E-04	7.10E-04	7.60E-03	9.00E-03	1.30E-04	1.71E-04	1.71E-04
	19	18614.1	(ug/hour)	148.91	2.6227	5.2455	7.9892	10.4809	8.24E-05	1.64E-04	2.47E-04	6.97E-04	7.23E-03	8.23E-03	1.21E-04	1.62E-04	1.62E-04
	20	17582.6	(ug/hour)	140.86	2.3774	4.8549	7.4323	8.0116	7.768E-05	1.567E-04	2.39E-04	6.83E-04	7.09E-03	7.09E-03	1.17E-04	1.56E-04	1.56E-04
	21	16551.6	(ug/hour)	132.41	2.3231	4.6942	8.0054	8.3226	7.32E-05	1.49E-04	2.18E-04	6.62E-04	6.92E-03	7.32E-03	1.10E-04	1.47E-04	1.47E-04
	22	15520.4	(ug/hour)	124.16	2.1889	4.3736	6.9505	8.7473	6.470E-05	1.37E-04	2.09E-04	6.27E-04	6.35E-03	6.87E-03	1.05E-04	1.37E-04	1.37E-04
	23	14489.1	(ug/hour)	115.81	2.0415	4.0630	6.1246	8.1061	6.19E-05	1.263E-04	1.82E-04	5.95E-04	6.41E-03	6.62E-03	1.02E-04	1.28E-04	1.28E-04
	24	13457.9	(ug/hour)	107.66	1.8082	3.7924	5.7687	7.7682	5.86E-05	1.17E-04	1.76E-04	5.80E-04	5.90E-03	6.04E-03	9.94E-04	1.10E-04	1.10E-04
	25	12426.6	(ug/hour)	99.41	1.7500	3.5018	5.2527	7.0037	5.40E-05	1.101E-04	1.651E-04	5.71E-04	5.80E-03	5.93E-03	9.75E-04	1.05E-04	1.05E-04
	26	11395.4	(ug/hour)	91.16	1.6056	3.2112	4.6168	4.6422	5.04E-05	1.00E-04	1.51E-04	5.61E-04	5.63E-03	5.75E-03	9.50E-04	1.01E-04	1.01E-04
	27	10364.2	(ug/hour)	82.91	1.4803	2.9206	4.3009	5.8413	4.66E-05	9.17E-05	1.377E-04	4.77E-04	4.87E-03	5.07E-03	9.08E-04	9.18E-04	9.18E-04
	28	9332.9	(ug/hour)	74.86	1.3150	2.6304	3.9450	6.2600	4.139E-05	8.24E-05	1.240E-04	4.60E-04	4.70E-03	4.80E-03	9.08E-04	9.27E-04	9.27E-04
	29	8301.7	(ug/hour)	66.41	1.1687	2.3394	3.5071	4.6708	3.778E-05	7.255E-05	1.103E-04	4.47E-04	4.57E-03	4.67E-03	8.97E-04	9.51E-04	9.51E-04
	30	7270.5	(ug/hour)	58.19	1.0244	2.0468	3.0732	4.0783	3.220E-05	6.43E-05	9.65E-05	4.20E-04	4.31E-03	4.320E-03	8.220E-04	9.04E-04	9.04E-04
	31	6239.2	(ug/hour)	49.91	0.8781	1.7882	2.8373	3.5194	2.708E-05	5.526E-05	9.526E-05	4.01E-04	4.11E-03	4.208E-03	8.04E-04	8.73E-04	8.73E-04
	32	5206.0	(ug/hour)	41.60	0.7336	1.4676	2.3014	2.8302	2.308E-05	4.812E-05	8.810E-05	3.908E-04	4.018E-03	4.108E-03	7.908E-04	8.49E-04	8.49E-04
	33	4176.7	(ug/hour)	33.41	0.5885	1.1770	1.7885	2.3240	1.849E-05	3.898E-05	5.548E-05	3.798E-04	3.898E-03	3.998E-03	7.77E-04	8.37E-04	8.37E-04
	34	3145.5	(ug/hour)	25.19	0.4432	0.8864	1.5296	1.7728	1.300E-05	2.798E-05	4.179E-05	2.798E-04	2.898E-03	2.998E-03	7.79E-04	8.09E-04	8.09E-04
	35	2114.3	(ug/hour)	16.91	0.2879	0.5966	0.9837	1.1016	8.308E-06	1.972E-05	2.408E-05	2.408E-04	2.408E-03	2.408E-03	4.881E-05	5.374E-05	5.374E-05

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/hour) * DAILY HOURS OF EXPOSURE PER DAY

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 kg/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days)/365 (days)] * [WORK INTERVAL (min)/AVG. LIFETIME (min)]

* RISK = [LADE(mg/day) * Q1*(mg/day)] / [DERMAL ABS. FACT. #1 (mg/day)] * [DERMAL ABS. FACT. #2 (%)]

• DAILY WORK HOURS:

ANNUAL EXPOSURE:

TOTAL WORK INTERVAL (hrs):

AVERAGE LIFETIME (hrs):

DERMAL ABS. FACT. #1 (%):

DERMAL ABS. FACT. #2 (%):

• CHLOROTHALONIL Q1* (mg/day/day):

AVERAGE WEIGHT:

DERMAL ABS. FACT. #1 (%):

DERMAL ABS. FACT. #2 (%):

DERMAL ABSORPTION FACTOR #1:

DERMAL ABSORPTION FACTOR #2:

0.011

70

20

10

LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FDR (ug/cm²) LEVELS

DESCRIPTION	STUDY	EXPOSURE	EXPOSURE	LADE CALCULATIONS						RISK ANALYSIS				
				DAY	LEVELS	FACTOR	(mg/day)	15 DAYS	30 DAYS	45 DAYS	60 DAYS	DERMAL ABSORPTION FACTOR #1	DERMAL ABSORPTION FACTOR #2	
TOTAL INSIDE	0	36207.6	(ug/hour)	305.66	3.5890	7.1779	10.7493	6.940E-05	5.408E-05	5.231E-05	5.186E-05	2.28E-05	0.011	
	1	37176.4	(ug/hour)	267.41	6.9642	10.4763	13.9684	2.744E-05	5.498E-05	5.087E-05	5.058E-05	2.20E-05	0.011	
	2	36145.1	(ug/hour)	266.16	3.9652	6.7903	10.1657	13.5609	2.869E-05	5.355E-05	5.087E-05	5.058E-05	2.15E-05	0.011
	3	35113.9	(ug/hour)	260.91	3.2884	6.5687	8.9851	13.1825	2.892E-05	5.182E-05	5.037E-05	5.007E-05	2.07E-05	0.011
	4	34082.8	(ug/hour)	272.66	3.4020	6.9045	12.6050	5.031E-05	5.031E-05	5.349E-05	5.006E-04	5.031E-05	0.011	
	5	33051.4	(ug/hour)	264.41	3.1048	6.2093	6.3150	12.4185	2.439E-05	4.879E-05	7.319E-05	6.757E-05	1.48E-05	0.011
	6	32020.2	(ug/hour)	256.16	3.0078	6.0159	9.0223	12.0511	2.906E-05	4.728E-05	7.000E-05	6.453E-05	1.42E-05	0.011
	7	30980.9	(ug/hour)	247.91	2.9109	5.8216	8.7327	11.8439	2.267E-05	4.574E-05	6.801E-05	6.149E-05	1.37E-05	0.011
	8	28657.7	(ug/hour)	238.66	2.5140	5.6281	6.4421	11.2561	2.211E-05	4.422E-05	6.833E-05	6.844E-05	1.30E-05	0.011
	9	28265.5	(ug/hour)	221.41	2.7172	5.4243	6.1515	10.8000	2.159E-05	4.270E-05	6.408E-05	6.540E-05	1.28E-05	0.011
	10	27952.2	(ug/hour)	223.16	2.8223	5.2409	7.8000	10.4612	2.058E-05	4.119E-05	6.179E-05	6.228E-05	1.24E-05	0.011
	11	26884.0	(ug/hour)	214.91	2.5234	5.0469	5.7503	10.0637	1.940E-05	3.988E-05	5.948E-05	7.931E-05	3.08E-05	0.011
	12	25632.7	(ug/hour)	206.66	2.4286	4.8651	7.2797	9.7082	1.807E-05	3.871E-05	5.720E-05	7.628E-05	2.94E-05	0.011
	13	24801.5	(ug/hour)	186.41	2.3287	4.6864	6.9861	9.3168	1.830E-05	3.861E-05	5.491E-05	7.322E-05	2.10E-05	0.011
	14	23770.3	(ug/hour)	180.16	2.2328	4.4659	6.8805	8.8319	1.794E-05	3.508E-05	5.239E-05	7.017E-05	2.05E-05	0.011
	15	22739.0	(ug/hour)	161.91	2.1380	4.2718	6.4079	8.5459	1.678E-05	3.357E-05	5.038E-05	6.713E-05	1.01E-05	0.011
	16	21707.8	(ug/hour)	173.86	2.0261	4.0782	6.1173	8.1864	1.602E-05	3.204E-05	4.808E-05	6.409E-05	9.61E-06	0.011
	17	20676.6	(ug/hour)	165.41	1.9422	3.8644	5.9287	7.7060	1.538E-05	3.052E-05	4.578E-05	6.104E-05	9.10E-06	0.011
	18	19645.3	(ug/hour)	157.16	1.8454	3.8607	5.5381	7.3614	1.480E-05	2.800E-05	4.300E-05	5.800E-05	8.70E-06	0.011
	19	18614.1	(ug/hour)	149.91	1.7485	3.4670	6.2455	6.9039	1.374E-05	2.748E-05	4.121E-05	5.488E-05	7.47E-06	0.011
	20	17582.6	(ug/hour)	140.66	1.6516	3.2032	4.5649	6.8005	1.269E-05	2.698E-05	3.898E-05	5.191E-05	7.09E-06	0.011
	21	16551.4	(ug/hour)	132.41	1.5547	3.1065	4.8642	6.2100	1.222E-05	2.443E-05	3.688E-05	4.888E-05	6.443E-05	0.011
	22	15520.4	(ug/hour)	124.16	1.4579	2.9159	4.3736	5.8315	1.148E-05	2.291E-05	3.438E-05	4.582E-05	6.072E-05	0.011
	23	14489.1	(ug/hour)	115.91	1.3610	2.7220	4.0630	5.4441	1.069E-05	2.198E-05	3.208E-05	4.277E-05	5.13E-05	0.011
	24	13457.9	(ug/hour)	107.66	1.2641	2.5253	3.7224	5.0569	9.859E-06	2.000E-05	3.873E-05	5.898E-05	5.973E-05	0.011
	25	12420.6	(ug/hour)	99.41	1.1873	2.3340	3.5010	5.0349	8.171E-06	1.634E-05	2.751E-05	3.698E-05	5.502E-05	7.34E-05
	26	11395.4	(ug/hour)	91.16	1.0704	2.1409	3.2112	4.8109	8.140E-06	1.602E-05	2.522E-05	3.384E-05	5.05E-05	6.73E-05
	27	10364.2	(ug/hour)	82.91	0.9739	1.9471	2.9208	3.8642	7.648E-06	1.530E-05	2.298E-05	3.080E-05	4.56E-05	6.12E-05
	28	9332.9	(ug/hour)	74.66	0.8767	1.7533	2.6300	3.5097	8.089E-06	1.378E-05	2.088E-05	2.785E-05	3.70E-05	5.51E-05
	29	8301.7	(ug/hour)	66.41	0.7798	1.5508	2.3894	3.2124	5.0569	6.119E-06	1.225E-05	2.451E-05	3.225E-05	4.68E-05
	30	7270.5	(ug/hour)	58.16	0.6825	1.3628	2.0480	2.7319	5.399E-06	1.073E-05	1.810E-05	2.148E-05	3.02E-05	4.29E-05
	31	6239.2	(ug/hour)	49.91	0.5881	1.1721	1.7582	2.3443	4.808E-06	9.210E-06	1.642E-05	1.942E-05	2.76E-05	3.86E-05
	32	5206.0	(ug/hour)	41.66	0.4892	1.0478	1.4678	1.8668	3.841E-06	7.897E-06	1.153E-05	1.537E-05	2.31E-05	3.07E-05
	33	4176.7	(ug/hour)	33.41	0.3623	1.1770	1.7847	1.5693	3.083E-06	6.165E-06	8.248E-06	1.203E-05	1.65E-05	2.47E-05
	34	3145.5	(ug/hour)	25.16	0.2955	0.9864	1.1919	2.232E-06	4.943E-06	8.086E-06	9.208E-06	1.39E-05	1.89E-05	
	35	2114.3	(ug/hour)	19.91	0.1989	0.3872	0.3858	0.7844	1.800E-06	3.121E-05	4.801E-06	6.242E-05	9.34E-07	1.29E-05

NOTES:

• (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

• EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS * EXPOSURE RATE (mg/hour) * DAILY HOURS

• TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (907 +/- 52 kg/hour).

• LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * (ANNUAL EXPOSURE (mg/day)) * (WORK INTERVAL (hrs)/AVG. LIFETIME (hrs))

• RISK = [LADE(mg/day) * Q1*(mg/kg/day)-1] / BODY WEIGHT(kg)

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AP SUPPORT TASK-2110-003
VERSAR INC. 911573 JLD
REVIEW OF CHLOROTHALONIL FOIL RESIDUE EXPOSURE STUDY
ADE RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL ADE RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURE PARAMETERS										TOXICOLOGICAL PARAMETERS																				
EXPOSURE PARAMETERS					TOXICOLOGICAL PARAMETERS					EXPOSURE PARAMETERS					TOXICOLOGICAL PARAMETERS															
DAILY WORK HOURS:		ANNUAL EXPOSURE (day/h)			CHLOROTHALONOL QT [®] (mg/day):		AVERAGE WEIGHT:			DERMAL ABS. FACT. #1 (%):		DERMAL ABS. FACT. #2 (%):			DERMAL ABS. FACT. #3 (%):															
TOTAL WORK INTERVAL (hrs):		15,930/45,980			6		70			50		70			5															
AVERAGE LIFETIME (yrs):		30			30		30			30		30			30															
AVERAGE PICKING RATE (lb/hour):		307			307		307			307		307			307															
RISK ANALYSIS										RISK ANALYSIS																				
DERMAL ABSORPTION FACTOR #1					DERMAL ABSORPTION FACTOR #2					DERMAL ABSORPTION FACTOR #3					DERMAL ABSORPTION FACTOR #4															
15 DAYS		30 DAYS			45 DAYS		60 DAYS			45 DAYS		60 DAYS			45 DAYS		60 DAYS													
(mg/day)		(mg/day)			(mg/day)		(mg/day)			(mg/day)		(mg/day)			(mg/day)		(mg/day)													
STUDY DAY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	EXPOSURE FACTOR	EXPOSURE (mg/day)	EXPOSURE FACTOR	EXPOSURE (mg/day)	EXPOSURE FACTOR	EXPOSURE (mg/day)	EXPOSURE FACTOR	EXPOSURE (mg/day)	EXPOSURE FACTOR	EXPOSURE (mg/day)	EXPOSURE FACTOR	EXPOSURE (mg/day)	EXPOSURE FACTOR	EXPOSURE (mg/day)	EXPOSURE FACTOR												
TOTAL INSIDE	0	30207.6	5.3635	10.7869	16.1504	21.5330	4.2206e-05	8.480E-05	1.692E-04	1.692E-04	1.692E-04	1.692E-04	1.692E-04	1.692E-04	1.692E-04	2.54E-05	3.34E-05	4.03E-05												
1	37178.4	5.2630	15.7183	15.7145	20.3165	4.116E-15	1.231E-05	1.648E-04	1.648E-04	1.648E-04	1.648E-04	1.648E-04	1.648E-04	1.648E-04	2.51E-05	3.28E-05	4.01E-05													
2	36145.1	5.0620	10.1857	15.2786	20.3714	4.002E-05	6.003E-05	1.200E-04	1.801E-04	1.801E-04	1.801E-04	1.801E-04	1.801E-04	1.801E-04	2.40E-05	3.02E-05	3.60E-05													
3	35113.9	4.9416	9.8951	14.6427	16.7802	3.867E-05	7.775E-05	1.168E-04	1.595E-04	1.595E-04	1.595E-04	1.595E-04	1.595E-04	1.595E-04	2.33E-05	3.11E-05	3.80E-05													
4	34092.5	4.86223	9.0045	14.4098	18.2000	3.773E-05	7.548E-05	1.132E-04	1.504E-04	1.504E-04	1.504E-04	1.504E-04	1.504E-04	1.504E-04	2.28E-05	3.02E-05	3.70E-05													
5	33051.4	4.8570	13.1358	13.6708	17.3165	3.716E-05	7.316E-05	1.108E-04	1.484E-04	1.484E-04	1.484E-04	1.484E-04	1.484E-04	1.484E-04	2.16E-05	2.83E-05	3.47E-05													
6	32020.2	4.8510	15.5118	15.5249	16.0406	3.545E-05	7.090E-05	1.083E-04	1.418E-04	1.418E-04	1.418E-04	1.418E-04	1.418E-04	1.418E-04	2.13E-05	2.80E-05	3.45E-05													
7	30985.9	4.3963	17.7327	13.0860	17.4654	3.431E-05	6.861E-05	1.057E-04	1.372E-04	1.372E-04	1.372E-04	1.372E-04	1.372E-04	1.372E-04	2.08E-05	2.74E-05	3.40E-05													
8	29957.7	4.2210	8.4421	12.6851	18.4842	3.317E-05	6.633E-05	1.032E-04	1.352E-04	1.352E-04	1.352E-04	1.352E-04	1.352E-04	1.352E-04	2.05E-05	2.65E-05	3.30E-05													
9	28928.5	4.0737	6.1515	12.2272	16.3030	2.920E-05	6.405E-05	9.807E-05	1.201E-04	1.201E-04	1.201E-04	1.201E-04	1.201E-04	1.201E-04	1.92E-05	2.56E-05	3.20E-05													
10	27895.2	3.9304	7.4000	11.7013	17.2116	3.068E-05	6.179E-05	9.370E-05	1.177E-04	1.177E-04	1.177E-04	1.177E-04	1.177E-04	1.177E-04	1.82E-05	2.47E-05	3.08E-05													
11	26864.0	3.7851	7.3703	13.3554	15.1406	2.874E-05	5.948E-05	8.948E-05	1.190E-04	1.190E-04	1.190E-04	1.190E-04	1.190E-04	1.190E-04	1.78E-05	2.38E-05	2.98E-05													
12	25832.7	3.6368	7.2797	10.9185	14.5504	2.800E-05	5.572E-05	8.580E-05	1.144E-04	1.144E-04	1.144E-04	1.144E-04	1.144E-04	1.144E-04	1.72E-05	2.30E-05	2.89E-05													
13	24801.5	3.4945	6.9861	10.4836	13.8751	2.748E-05	5.481E-05	8.196E-05	1.096E-04	1.096E-04	1.096E-04	1.096E-04	1.096E-04	1.096E-04	1.65E-05	2.26E-05	2.84E-05													
14	23770.3	3.3492	6.8695	10.0477	13.3906	2.682E-05	5.085E-05	7.805E-05	1.050E-04	1.050E-04	1.050E-04	1.050E-04	1.050E-04	1.050E-04	1.56E-05	2.11E-05	2.68E-05													
15	22739.0	3.1203	6.8470	9.8118	12.8157	2.517E-05	5.035E-05	7.352E-05	1.007E-04	1.007E-04	1.007E-04	1.007E-04	1.007E-04	1.007E-04	1.51E-05	2.01E-05	2.51E-05													
16	21707.0	3.0564	173.96	8.1173	9.1750	2.403E-05	4.808E-05	7.210E-05	9.813E-05	9.813E-05	9.813E-05	9.813E-05	9.813E-05	9.813E-05	1.44E-05	1.92E-05	2.40E-05													
17	20676.6	2.9387	8.7400	11.9533	10.9185	2.329E-05	4.570E-05	6.970E-05	9.150E-05	9.150E-05	9.150E-05	9.150E-05	9.150E-05	9.150E-05	1.37E-05	1.83E-05	2.30E-05													
18	19645.3	2.7860	6.5381	8.3041	11.0731	2.175E-05	4.250E-05	6.702E-05	8.450E-05	8.450E-05	8.450E-05	8.450E-05	8.450E-05	8.450E-05	1.30E-05	1.74E-05	2.18E-05													
19	18614.1	2.6227	5.2495	7.8862	10.4638	2.081E-05	4.121E-05	6.182E-05	7.805E-05	7.805E-05	7.805E-05	7.805E-05	7.805E-05	7.805E-05	1.24E-05	1.65E-05	2.04E-05													
20	17582.0	2.4774	4.8546	7.4323	9.8037	1.947E-05	3.895E-05	5.840E-05	7.780E-05	7.780E-05	7.780E-05	7.780E-05	7.780E-05	7.780E-05	1.17E-05	1.56E-05	1.95E-05													
21	16551.6	2.3321	4.60442	6.9884	8.0118	1.823E-05	3.487E-05	5.487E-05	7.380E-05	7.380E-05	7.380E-05	7.380E-05	7.380E-05	7.380E-05	1.10E-05	1.47E-05	1.82E-05													
22	15520.4	4.1726	2.1650	8.2453	8.2453	3.428E-05	6.372E-05	9.152E-05	1.428E-04	1.428E-04	1.428E-04	1.428E-04	1.428E-04	1.428E-04	1.327E-05	1.707E-05	2.087E-05													
23	14489.1	2.0415	4.0830	6.1246	6.1681	1.604E-05	3.020E-05	6.104E-05	8.104E-05	8.104E-05	8.104E-05	8.104E-05	8.104E-05	8.104E-05	9.92E-06	1.28E-05	1.58E-05													
24	13457.9	1.8982	3.7924	5.6887	7.5649	1.480E-05	2.840E-05	5.840E-05	7.470E-05	7.470E-05	7.470E-05	7.470E-05	7.470E-05	7.470E-05	8.94E-06	1.19E-05	1.49E-05													
25	12428.6	1.7500	3.8018	5.2527	7.0237	1.073E-05	2.751E-05	5.905E-05	7.251E-05	7.251E-05	7.251E-05	7.251E-05	7.251E-05	7.251E-05	6.83E-06	9.10E-06	1.10E-05													
26	11395.4	1.6050	3.2112	4.8156	6.4225	1.282E-05	2.522E-05	5.785E-05	7.375E-05	7.375E-05	7.375E-05	7.375E-05	7.375E-05	7.375E-05	7.57E-06	9.75E-06	1.01E-05													
27	10364.2	1.4003	2.9508	4.8413	6.8413	1.474E-05	2.298E-05	5.445E-05	6.419E-05	6.419E-05	6.419E-05	6.419E-05	6.419E-05	6.419E-05	8.028E-06	1.028E-05	1.127E-05													
28	9332.0	1.2416	3.1310	3.9450	5.2950	1.620E-05	3.030E-05	5.030E-05	6.202E-05	6.202E-05	6.202E-05	6.202E-05	6.202E-05	6.202E-05	6.27E-06	8.27E-06	9.27E-06													
29	8310.7	1.1887	3.2394	3.5081	4.9768	1.818E-05	3.838E-05	5.838E-05	6.938E-05	6.938E-05	6.938E-05	6.938E-05	6.938E-05	6.938E-05	6.515E-06	7.555E-06	8.555E-06													
30	7270.5	1.0244	2.0468	3.0723	4.0723	4.076E-05	8.107E-05	1.610E-04	2.415E-05	2.415E-05	2.415E-05	2.415E-05	2.415E-05	2.415E-05	4.63E-06	6.44E-06	8.44E-06													
31	6239.2	0.9781	1.7500	1.7500	2.8373	3.5104	6.907E-05	1.301E-05	1.961E-05	2.765E-05	2.765E-05	2.765E-05	2.765E-05	2.765E-05	4.11E-06	5.53E-06	6.53E-06													
32	5208.0	0.9347	0.7338	1.4670	2.0114	2.8352	5.786E-05	1.153E-05	1.703E-05	2.300E-05	2.300E-05	2.300E-05	2.300E-05	2.300E-05	3.48E-06	4.81E-06	6.81E-06													
33	4176.7	0.8867	1.1700	1.1700	1.1700	1.1700	6.248E-05	1.248E-05	1.848E-05	2.424E-05	2.424E-05	2.424E-05	2.424E-05	2.424E-05	3.77E-06	5.77E-06	7.77E-06													
34	3145.5	0.4432	0.8867	0.8867	0.8867	0.8867	6.945E-05	1.348E-05	1.948E-05	2.548E-05	2.548E-05	2.548E-05	2.548E-05	2.548E-05	3.70E-06	5.70E-06	7.70E-06													
35	2114.3	0.2876	0.5655	0.5655	0.5655	0.5655	6.945E-05	1.348E-05	1.948E-05	2.548E-05	2.548E-05	2.548E-05	2.548E-05	2.548E-05	3.70E-06	5.70E-06	7.70E-06													

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EXPOSURE PARAMETERS		LAD CALCULATIONS										RISK ANALYSIS									
		DAILY WORK HOURS:		ANNUAL EXPOSURE (days):		TOTAL WORK INTERVAL (hrs):		AVERAGE LIFETIME (yrs):		AVERAGE PICKING RATE (hrs/hour):		DERMAL ABSORPTION FACT. #1 (mg/mg/day-1):		DERMAL ABSORPTION FACTOR #2 (mg/mg/day-1):		DERMAL ABSORPTION FACTOR #1 (mg/mg/day-1):		DERMAL ABSORPTION FACTOR #2 (mg/mg/day-1):			
DESCRIPTION	STUDY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	DAY	15 DAYS	30 DAYS	45 DAYS	60 DAYS	10 DAYS	20 DAYS	30 DAYS	40 DAYS	50 DAYS	10 DAYS	20 DAYS	30 DAYS	40 DAYS			
TOTAL INSIDE	0	39130.7	(ug/hour)	313.05	1,837.6	3,875.7	5,513.5	7,251.4	2,888E-04	5,770E-04	8,654E-04	1,155E-03	1,444E-04	2,848E-04	4,323E-04	5,78E-04	5,78E-04	5,78E-04			
	1	37783.6	(ug/hour)	302.11	1,773.6	3,547.3	5,320.6	7,094.5	2,787E-04	5,574E-04	8,361E-04	1,115E-03	1,344E-04	2,797E-04	4,116E-04	5,37E-04					
	2	36396.5	(ug/hour)	291.17	1,708.4	3,416.6	5,126.3	6,837.7	2,686E-04	5,372E-04	8,096E-04	1,074E-03	1,343E-04	2,686E-04	4,03E-04	5,37E-04					
	3	35028.5	(ug/hour)	280.24	1,645.2	3,290.4	4,936.7	6,530.6	2,585E-04	5,171E-04	7,756E-04	1,004E-03	1,283E-04	2,585E-04	3,66E-04	5,17E-04					
	4	34642.4	(ug/hour)	269.30	1,581.0	3,162.0	4,743.0	6,234.0	2,484E-04	4,890E-04	8,039E-04	1,242E-04	1,424E-04	2,444E-04	3,73E-04	4,97E-04					
	5	32285.3	(ug/hour)	258.36	1,516.8	3,033.6	4,550.4	5,907.2	2,384E-04	4,767E-04	7,151E-04	1,493E-04	1,692E-04	2,364E-04	3,58E-04	4,77E-04					
	6	30928.2	(ug/hour)	247.43	1,452.6	2,905.2	4,357.6	5,610.4	2,283E-04	4,555E-04	6,848E-04	9,131E-04	1,141E-04	2,263E-04	3,42E-04	4,57E-04					
	7	28561.2	(ug/hour)	236.49	1,388.4	2,776.8	4,165.2	5,363.8	2,182E-04	4,364E-04	6,549E-04	8,727E-04	1,081E-04	2,182E-04	3,27E-04	4,38E-04					
	8	26194.1	(ug/hour)	225.55	1,324.2	2,649.4	3,972.0	5,209.7	2,081E-04	4,182E-04	6,245E-04	8,322E-04	1,040E-04	2,061E-04	3,12E-04	4,19E-04					
	9	23827.0	(ug/hour)	214.62	1,260.0	2,520.0	3,779.9	5,038.9	1,980E-04	3,980E-04	5,840E-04	7,820E-04	9,800E-05	1,860E-04	2,87E-04	3,88E-04					
	10	25459.9	(ug/hour)	203.68	1,195.8	2,381.5	3,587.3	4,763.1	1,870E-04	3,785E-04	5,637E-04	7,510E-04	9,380E-05	1,787E-04	2,81E-04	3,79E-04					
	11	24092.8	(ug/hour)	192.74	1,131.8	2,283.1	3,394.7	4,452.6	1,770E-04	3,585E-04	5,335E-04	7,119E-04	8,861E-05	1,778E-04	2,87E-04	3,58E-04					
	12	22725.6	(ug/hour)	181.81	1,067.4	2,134.7	3,202.1	4,209.4	1,677E-04	3,365E-04	5,035E-04	6,708E-04	8,388E-05	1,877E-04	2,95E-04	3,54E-04					
	13	21358.7	(ug/hour)	170.87	1,003.1	2,006.3	3,008.4	4,012.8	1,570E-04	3,185E-04	4,729E-04	6,308E-04	7,848E-05	1,876E-04	2,98E-04	3,51E-04					
	14	19881.6	(ug/hour)	159.93	9,338.9	1,877.8	2,616.8	3,755.0	1,475E-04	2,891E-04	4,428E-04	5,902E-04	7,377E-05	1,475E-04	2,21E-04	2,89E-04					
	15	18624.5	(ug/hour)	148.00	8,674.7	1,749.5	2,424.2	3,489.0	1,375E-04	2,746E-04	4,124E-04	5,468E-04	6,872E-05	1,375E-04	2,09E-04	2,79E-04					
	16	17257.4	(ug/hour)	138.06	8,110.5	1,621.1	2,431.6	3,242.1	1,271E-04	2,547E-04	3,921E-04	5,095E-04	6,303E-05	1,274E-04	1,91E-04	2,55E-04					
	17	15890.4	(ug/hour)	127.12	7,748.3	1,482.6	2,228.0	2,985.3	1,172E-04	2,346E-04	3,511E-04	4,8911E-04	5,864E-05	1,173E-04	1,76E-04	2,33E-04					
	18	14523.3	(ug/hour)	116.19	8,802.1	1,394.2	2,048.3	2,784.4	1,072E-04	2,144E-04	3,216E-04	4,208E-04	5,356E-05	1,072E-04	1,91E-04	2,14E-04					
	19	13156.2	(ug/hour)	105.25	8,617.9	1,225.9	1,853.7	2,471.0	9,710E-05	1,841E-04	2,913E-04	3,884E-04	4,855E-05	1,710E-05	1,49E-04	1,84E-04					
	20	11789.1	(ug/hour)	94.31	9,535.7	1,107.4	1,861.1	2,214.0	8,701E-05	1,714E-04	2,619E-04	3,480E-04	4,350E-05	9,701E-05	1,31E-04	1,74E-04					
	21	10422.1	(ug/hour)	83.36	9,489.0	1,021.1	1,642.6	2,131.6	7,692E-05	1,539E-04	2,308E-04	3,077E-04	3,646E-05	7,692E-05	1,18E-04	1,54E-04					
	22	9055.0	(ug/hour)	72.44	9,425.3	9,850.6	1,275.8	1,7011	6,865E-05	1,327E-04	2,095E-04	2,873E-04	3,542E-05	8,863E-05	1,03E-04	1,34E-04					
	23	7687.9	(ug/hour)	61.50	9,361.1	7,722.2	1,083.2	1,444.9	5,974E-05	1,135E-04	1,702E-04	2,270E-04	2,837E-05	6,874E-05	8,511E-05	1,13E-04					
	24	6320.8	(ug/hour)	50.57	2,295.0	5,953.7	8,600.6	1,167.5	4,065E-05	9,303E-05	1,402E-04	1,608E-04	2,332E-05	4,895E-05	7,00E-05	9,32E-05					
	25	4953.7	(ug/hour)	39.62	0.29327	4,462.5	6,892.0	0,8920	0,8920	3,695E-05	7,312E-05	1,097E-04	1,492E-04	1,828E-05	3,498E-05	7,31E-05					
	26	3586.7	(ug/hour)	28.66	0,1886.5	3,326.9	5,056.4	0,873.8	2,047E-05	5,284E-05	7,941E-05	1,038E-04	1,334E-05	2,847E-05	3,97E-05	5,28E-05					
	27	2219.6	(ug/hour)	17.76	0,1042	0,20465	0,3127	0,4170	1,638E-05	4,914E-05	6,553E-05	8,161E-06	1,638E-05	2,478E-05							
	28	852.5	(ug/hour)	0.0	0.0400	0.0801	0.1201	0.1802	6,295E-06	1,258E-05	1,988E-05	2,517E-05	1,448E-06	2,922E-05	3,28E-05						
	29	0.0	(ug/hour)	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
	30	0.0	(ug/hour)	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
	31	0.0	(ug/hour)	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
	32	0.0	(ug/hour)	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
	33	0.0	(ug/hour)	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
	34	0.0	(ug/hour)	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				
	35	0.0	(ug/hour)	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000				

NOTES:

* [ug/hour] LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/day) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 92 hrs/hour).

* LAD (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (days/year) * (WORK INTERVAL (hrs)/day) / BODY WEIGHT (kg)]

* RISK = [LAD (mg/day) * Q1 * (mg/mg/day-1) * DERMAL ABS. FACTOR (#/mg/day)] / (DERMAL ABS. FACTOR (#/mg/day-1) * BODY WEIGHT (kg))

REVIEW OF CHLOROTHALONIL FOAM DISLOCGEABLE RESIDUE EXPOSURE STUDY
LADE(RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL LADE(RISK VALUES BASED ON INDIVIDUAL EXPOSURE LEVELS
EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY	EXPOSURE	LEVELS	FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)	RISK ANALYSIS												
							15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS						
TOTAL INSIDE	0	39130.7	(ug/hour)		313.05	11.0270	14.7027	5.774E-04	1.159E-03	2.310E-03	5.778E-03	2.310E-03	5.778E-04						
	1	37763.6	(ug/hour)		302.11	10.6418	14.1861	5.574E-04	1.118E-03	2.200E-03	5.774E-04	2.200E-03	5.774E-04						
	2	36398.5	(ug/hour)		291.17	10.2568	13.6754	5.372E-04	1.074E-03	2.148E-03	5.372E-04	2.148E-03	5.372E-04						
	3	35079.5	(ug/hour)		280.24	9.8606	9.8713	13.1116	5.171E-04	1.034E-03	2.088E-03	5.171E-04	2.088E-03	5.171E-04					
	4	33862.4	(ug/hour)		269.30	9.4861	12.4861	4.986E-04	9.938E-04	1.948E-03	4.986E-04	1.948E-03	4.986E-04	1.948E-03					
	5	32295.3	(ug/hour)		258.36	9.0872	9.1008	12.1944	4.787E-04	9.534E-04	1.897E-03	4.787E-04	1.897E-03	4.787E-04	1.897E-03				
	6	30928.2	(ug/hour)		247.43	9.6052	5.8104	8.7158	11.8206	4.395E-04	9.131E-04	1.828E-03	4.395E-04	1.828E-03	4.395E-04	1.828E-03			
	7	29561.2	(ug/hour)		236.49	8.5530	8.5530	11.1071	4.384E-04	6.777E-04	2.185E-03	4.384E-04	6.548E-04	6.75E-04	6.548E-04				
	8	28194.1	(ug/hour)		225.55	8.6484	7.2807	7.8451	6.503E-04	4.182E-04	6.240E-03	4.182E-04	6.240E-03	4.182E-04	6.240E-03				
	9	26827.0	(ug/hour)		214.62	8.2520	6.0369	10.0768	3.980E-04	7.920E-04	1.189E-03	5.948E-04	1.189E-03	5.948E-04	1.189E-03				
	10	25459.9	(ug/hour)		203.68	7.8615	4.7631	7.1748	9.508E-04	3.758E-04	1.127E-03	3.503E-04	1.127E-03	3.503E-04	1.127E-03				
	11	24082.8	(ug/hour)		192.74	7.2633	4.5262	8.7694	8.082E-04	3.589E-04	7.113E-04	1.067E-03	1.423E-03	1.778E-04	3.589E-04	7.113E-04	1.067E-03		
	12	22725.6	(ug/hour)		181.81	7.1347	4.2864	6.4041	7.050E-04	3.395E-04	7.006E-04	1.342E-03	1.342E-03	1.677E-04	3.395E-04	8.031E-04	8.71E-04		
	13	21358.7	(ug/hour)		170.87	7.0083	4.0128	6.0128	6.0252	3.193E-04	9.303E-04	9.458E-04	1.261E-03	1.261E-03	1.518E-04	9.303E-04	8.71E-04	8.71E-04	
	14	19891.6	(ug/hour)		159.83	6.8779	3.7358	5.6338	5.7515	2.891E-04	8.802E-04	8.853E-04	1.180E-03	1.180E-03	4.431E-04	8.853E-04	5.89E-04	5.89E-04	
	15	18524.5	(ug/hour)		149.00	6.7195	3.4909	5.2484	6.987E-04	2.749E-04	5.498E-04	8.247E-04	1.100E-03	1.375E-04	2.749E-04	4.12E-04	5.505E-04	5.505E-04	
	16	17257.4	(ug/hour)		138.06	6.5211	3.2421	4.9632	6.4842	2.547E-04	5.998E-04	7.842E-04	1.019E-03	1.271E-04	2.547E-04	3.12E-04	5.09E-04	5.09E-04	
	17	15880.4	(ug/hour)		127.12	4.9225	2.9853	4.4779	5.9779	2.348E-04	4.991E-04	7.037E-04	9.302E-04	1.177E-04	2.348E-04	3.549E-04	4.08E-04	4.08E-04	
	18	14523.3	(ug/hour)		116.19	1.3642	2.7284	4.0827	5.4659	2.144E-04	4.280E-04	6.431E-04	8.575E-04	1.072E-04	2.144E-04	3.22E-04	4.29E-04	4.29E-04	
	19	13156.2	(ug/hour)		105.25	1.2858	2.4719	3.7074	4.9432	1.942E-04	3.848E-04	5.328E-04	7.788E-04	9.710E-05	1.942E-04	2.61E-04	3.68E-04	3.68E-04	
	20	11789.1	(ug/hour)		84.31	1.074	2.2146	3.3222	4.4260	1.740E-04	3.480E-04	5.221E-04	7.011E-05	7.40E-04	2.61E-04	3.480E-04	4.16E-04	4.16E-04	
	21	10422.1	(ug/hour)		83.38	0.9780	1.8580	2.8388	3.8159	1.538E-04	3.077E-04	4.815E-04	6.154E-04	7.892E-05	1.538E-04	2.311E-04	3.08E-04	3.08E-04	
	22	9055.0	(ug/hour)		72.44	0.8506	1.7011	2.5517	3.4623	1.337E-04	2.872E-04	4.010E-04	6.348E-04	8.883E-05	1.337E-04	2.07E-04	2.87E-04	2.87E-04	
	23	7687.9	(ug/hour)		61.50	0.7222	1.4443	2.1985	2.8880	1.138E-04	2.270E-04	3.404E-04	4.538E-04	6.874E-05	1.138E-04	1.70E-04	2.27E-04	2.27E-04	
	24	6320.8	(ug/hour)		50.57	0.5837	1.1873	2.3719	3.330E-05	1.886E-04	3.732E-04	4.798E-04	6.865E-05	9.300E-05	1.40E-04	1.87E-04	1.87E-04	1.87E-04	
	25	4953.7	(ug/hour)		36.83	0.4953	0.9306	1.3900	1.8613	7.31E-05	1.492E-04	2.184E-04	3.482E-04	5.221E-05	7.31E-05	1.10E-04	1.48E-04	1.48E-04	1.48E-04
	26	3585.7	(ug/hour)		26.99	0.3369	0.6737	1.6107	1.3476	5.284E-05	1.050E-04	1.588E-04	2.118E-04	2.847E-05	5.284E-05	7.84E-05	1.05E-04	1.05E-04	1.05E-04
	27	2218.6	(ug/hour)		17.76	0.2085	0.4170	0.6225	0.8440	3.270E-05	6.583E-05	8.628E-05	1.311E-04	1.838E-05	3.278E-05	4.81E-05	6.58E-05	6.58E-05	6.58E-05
	28	652.5	(ug/hour)		6.82	0.0601	0.1802	0.2402	0.3203	0.258E-05	5.217E-05	8.778E-05	1.258E-05	1.828E-05	1.258E-05	1.828E-05	2.52E-05	2.52E-05	2.52E-05
	29	0.0	(ug/hour)		0.0	0.0000	0.0000	0.0000	0.0000	0.000E+00									
	30	0.0	(ug/hour)		0.0	0.0000	0.0000	0.0000	0.0000	0.000E+00									
	31	0.0	(ug/hour)		0.0	0.0000	0.0000	0.0000	0.0000	0.000E+00									
	32	0.0	(ug/hour)		0.0	0.0000	0.0000	0.0000	0.0000	0.000E+00									
	33	0.4	(ug/hour)		0.0	0.0000	0.0000	0.0000	0.0000	0.000E+00									
	34	0.0	(ug/hour)		0.0	0.0000	0.0000	0.0000	0.0000	0.000E+00									
	35	0.0	(ug/hour)		0.0	0.0000	0.0000	0.0000	0.0000	0.000E+00									

NOTES:

- (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/day) * DAILY HOURS
- TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- LADe (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) / (ANNUAL EXPOSURE (mg/day)/AVG. LIFETIME (yr))
- RISK = [LADe(mg/day) * Q11*(mg/kg/day)] * (DERMAL ABS. FACTOR(100))/((BODY WEIGHT(kg)))

LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADERISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION		STUDY LEVELS	EXPOSURE FACTOR	EXPOSURE	LADERISK CALCULATIONS						RISK ANALYSIS						
DAY	EXPOSURE LEVELS				15 DAYS	30 DAYS	(mg/day)	45 DAYS	60 DAYS	DETERMINANT	DERMAL ABSORPTION FACTOR #1	15 DAYS	30 DAYS	45 DAYS	60 DAYS	DETERMINANT	DERMAL ABSORPTION FACTOR #2
TOTAL INSIDE	0	39130.7	(ug/hour)	313.05	5.5135	11.0270	16.5409	22.0541	8.064E-04	1.738E-03	2.509E-03	4.332E-04	8.064E-04	1.302E-03	1.738E-03	1.302E-03	
	1	37783.6	(ug/hour)	302.11	5.3209	10.6417	15.8827	21.2036	8.361E-04	1.672E-03	2.509E-03	4.161E-04	8.361E-04	1.292E-03	1.672E-03	1.292E-03	
	2	36396.5	(ug/hour)	291.17	5.1283	10.2586	15.3848	20.5131	8.059E-04	1.610E-03	2.418E-03	4.028E-04	8.059E-04	1.210E-03	1.610E-03	1.210E-03	
	3	35029.5	(ug/hour)	280.24	4.9257	9.8713	14.8070	19.7428	7.768E-04	1.551E-03	2.327E-03	3.102E-04	3.078E-04	7.758E-04	1.186E-03	1.551E-03	1.186E-03
	4	33662.4	(ug/hour)	269.30	4.7430	9.4861	14.2291	18.9721	7.453E-04	1.491E-03	2.238E-03	3.001E-04	7.453E-04	7.327E-04	7.453E-04	7.327E-04	
	5	32295.3	(ug/hour)	258.36	4.5504	9.1006	13.8512	18.2017	7.151E-04	1.430E-03	2.145E-03	2.890E-04	3.575E-04	7.151E-04	1.070E-03	1.430E-03	1.070E-03
	6	30928.2	(ug/hour)	247.43	4.3578	8.7150	13.0734	17.4312	6.848E-04	1.370E-03	2.054E-03	2.739E-04	3.424E-04	6.848E-04	1.030E-03	1.370E-03	1.030E-03
	7	29561.2	(ug/hour)	236.48	4.1652	8.3930	12.4955	16.0007	6.545E-04	1.309E-03	1.984E-03	2.610E-04	3.275E-04	6.545E-04	9.92E-04	1.311E-03	9.92E-04
	8	28194.1	(ug/hour)	225.55	3.9728	7.9451	11.8177	15.8002	6.245E-04	1.240E-03	1.973E-03	2.497E-04	3.121E-04	6.245E-04	9.30E-04	1.250E-03	9.30E-04
	9	26827.0	(ug/hour)	214.62	3.7790	7.5950	11.3300	15.1187	5.940E-04	1.180E-03	1.770E-03	2.370E-04	3.070E-04	5.940E-04	8.190E-04	1.190E-03	8.190E-04
	10	25459.9	(ug/hour)	203.68	3.5947	7.1740	10.7819	14.3492	5.637E-04	1.120E-03	1.620E-03	2.250E-04	2.910E-04	5.637E-04	6.40E-04	1.130E-03	6.40E-04
	11	24092.8	(ug/hour)	192.74	3.3947	6.7884	10.1841	13.5797	5.335E-04	1.067E-03	1.500E-03	2.134E-04	2.667E-04	5.335E-04	6.00E-04	1.070E-03	6.00E-04
	12	22725.6	(ug/hour)	181.81	3.2021	6.4041	9.8002	12.0003	5.032E-04	1.009E-03	1.410E-03	2.010E-04	2.510E-04	5.032E-04	5.95E-04	1.011E-03	5.95E-04
	13	21358.7	(ug/hour)	170.87	3.0084	6.0168	8.0283	11.2037	4.735E-04	9.410E-04	1.300E-03	1.800E-04	2.400E-04	4.725E-04	7.08E-04	9.440E-04	7.08E-04
	14	19991.6	(ug/hour)	150.93	2.8148	5.6236	8.4505	11.2673	4.429E-04	8.852E-04	1.200E-03	1.700E-04	2.300E-04	4.429E-04	6.845E-04	8.845E-04	6.845E-04
	15	18624.5	(ug/hour)	149.00	2.6242	5.2494	7.6720	10.4600	4.124E-04	8.247E-04	1.120E-03	1.600E-04	2.200E-04	4.124E-04	6.250E-04	8.250E-04	6.250E-04
	16	17257.4	(ug/hour)	138.08	2.4318	4.8632	7.2947	9.7200	3.821E-04	7.942E-04	1.040E-03	1.500E-04	2.100E-04	3.821E-04	5.792E-04	7.942E-04	5.792E-04
	17	15890.4	(ug/hour)	127.12	2.2280	4.4779	6.7100	8.0050	3.519E-04	7.030E-04	9.000E-04	1.400E-04	2.000E-04	3.000E-04	5.000E-04	7.040E-04	5.000E-04
	18	14523.3	(ug/hour)	116.19	2.0463	4.0927	6.1300	8.1653	3.210E-04	6.431E-04	8.000E-04	1.200E-04	1.800E-04	3.210E-04	4.820E-04	8.000E-04	4.820E-04
	19	13156.2	(ug/hour)	105.25	1.8537	3.7074	5.5811	7.6140	2.913E-04	5.828E-04	6.828E-04	1.100E-04	1.700E-04	2.821E-04	4.320E-04	7.711E-04	4.320E-04
	20	11788.1	(ug/hour)	94.31	1.6611	3.3222	4.9833	6.8444	2.610E-04	5.221E-04	7.831E-04	1.040E-04	1.640E-04	2.610E-04	4.124E-04	6.190E-04	4.124E-04
	21	10422.1	(ug/hour)	83.38	1.4685	2.9309	4.4054	5.9730	2.308E-04	4.610E-04	6.922E-04	9.000E-05	1.400E-04	2.308E-04	3.400E-04	4.820E-04	3.400E-04
	22	9055.0	(ug/hour)	72.44	1.2766	2.5517	3.8275	5.1084	2.050E-04	4.010E-04	5.020E-04	8.000E-05	1.200E-04	2.050E-04	3.000E-04	4.010E-04	3.000E-04
	23	7697.9	(ug/hour)	61.50	1.0832	2.1865	3.2497	4.3320	1.702E-04	3.404E-04	5.107E-04	8.000E-05	1.702E-04	2.050E-04	3.400E-04	5.000E-04	3.400E-04
	24	6320.8	(ug/hour)	50.57	0.8906	1.7812	3.5824	1.400E-04	2.709E-04	4.190E-04	8.000E-05	1.400E-04	2.000E-04	2.800E-04	4.000E-04	2.100E-04	4.000E-04
	25	4953.7	(ug/hour)	39.63	0.6990	2.0840	2.7918	1.097E-04	2.184E-04	3.221E-04	7.000E-05	1.097E-04	1.600E-04	2.184E-04	3.000E-04	2.184E-04	3.000E-04
	26	3586.7	(ug/hour)	28.66	0.5064	1.0107	1.5151	2.0214	7.941E-05	1.589E-04	2.380E-04	4.000E-05	6.000E-04	9.000E-05	1.589E-04	1.589E-04	1.589E-04
	27	2219.6	(ug/hour)	17.78	0.3127	0.8255	0.9362	1.2510	4.914E-05	9.628E-04	1.470E-04	1.000E-04	2.457E-05	4.914E-04	7.370E-05	9.628E-04	7.370E-05
	28	852.5	(ug/hour)	8.62	0.1201	0.2402	0.3804	0.4605	9.88E-06	3.778E-05	5.800E-05	8.000E-05	9.490E-06	1.600E-05	2.820E-05	9.490E-06	2.820E-05
	29	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
	30	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
	31	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
	32	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
	33	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
	34	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
	35	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 hours).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * (ANNUAL EXPOSURE (days)/365 (days)) * (WORK INTERVAL (hrs)/avg. lifetime (hrs))

* RISK = [LADE(mg/day) * Q1*(mg/kg/day)] / (BODY WEIGHT(kg))

RISK:

DAILY HOURS

DERMAL ABS. FACT.

REVIEW OF CHLOROTHALONIL FOAM DISLOCATEABLE RESIDUE/EXPOSURE STUDY
LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL LADE/RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

STUDY EXPOSURE LEVELS

DESCRIPTION	DAY	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADE CALCULATIONS (mg/day)
		LEVELS	(mg/day)	15 DAYS 30 DAYS 45 DAYS 60 DAYS
TOTAL INSIDE	0	36130.7	313.05	3.6757 5.5135 7.3514 9.1552 0.5 1.155E-04 1.753E-04 2.310E-04 2.865E-05 3.417E-05 4.001E-05 4.577E-05 5.157E-05 5.826E-05 6.496E-05 7.161E-04
	1	37763.6	302.11	1.7738 3.5473 6.3209 7.0045 0.5 1.115E-04 1.672E-04 2.230E-04 2.787E-05 3.365E-05 3.936E-05 4.505E-05 5.074E-05 5.645E-05 6.216E-05 6.787E-05 7.357E-05 7.926E-05 8.496E-05 9.065E-05 1.115E-04
	2	34398.5	291.17	1.7094 3.4169 5.1263 6.8377 0.5 1.074E-04 1.612E-04 2.149E-04 2.686E-05 3.247E-05 3.817E-05 4.386E-05 4.937E-05 5.517E-05 6.086E-05 6.656E-05 7.226E-05 7.797E-05 8.367E-05 8.936E-05 9.505E-05 1.074E-04
	3	35028.5	280.24	1.6452 3.2004 4.9857 6.5608 0.5 1.034E-04 1.531E-04 2.086E-04 2.645E-05 3.205E-05 3.774E-05 4.345E-05 4.914E-05 5.484E-05 6.053E-05 6.623E-05 7.192E-05 7.761E-05 8.331E-05 8.899E-05 9.468E-05 1.034E-04
	4	33662.4	269.30	1.5810 3.1620 4.7430 6.3240 0.5 1.004E-04 1.491E-04 1.980E-04 2.444E-05 3.002E-05 3.574E-05 4.130E-05 4.701E-05 5.271E-05 5.839E-05 6.408E-05 6.978E-05 7.548E-05 8.117E-05 8.686E-05 9.255E-05 9.824E-05
	5	32295.3	258.36	1.5168 3.0356 4.5904 6.0972 0.5 9.53E-05 1.430E-04 1.907E-04 2.384E-05 2.943E-05 3.513E-05 4.084E-05 4.654E-05 5.223E-05 5.793E-05 6.364E-05 6.934E-05 7.503E-05 8.072E-05 8.642E-05 9.211E-05 9.780E-05
	6	30926.2	247.43	1.4526 2.8952 4.3576 5.8104 0.5 9.131E-05 1.317E-04 1.792E-04 2.263E-05 2.823E-05 3.393E-05 3.964E-05 4.534E-05 5.104E-05 5.674E-05 6.244E-05 6.814E-05 7.384E-05 7.954E-05 8.524E-05 9.093E-05 9.663E-05
	7	29561.2	236.48	1.3984 2.7768 4.0652 5.3109 0.5 8.73E-05 1.209E-04 1.680E-04 2.150E-05 2.710E-05 3.280E-05 3.850E-05 4.420E-05 5.000E-05 5.569E-05 6.139E-05 6.709E-05 7.279E-05 7.849E-05 8.419E-05 8.989E-05 9.559E-05
	8	28194.1	225.55	1.3242 2.6484 3.9297 5.2397 0.5 8.32E-05 1.162E-04 1.534E-04 1.994E-05 2.564E-05 3.134E-05 3.704E-05 4.274E-05 4.844E-05 5.414E-05 5.984E-05 6.554E-05 7.124E-05 7.694E-05 8.264E-05 8.834E-05 9.404E-05
	9	26827.0	214.62	1.2600 2.5230 3.7798 5.0346 0.5 7.92E-05 1.108E-04 1.479E-04 2.031E-05 2.601E-05 3.171E-05 3.741E-05 4.311E-05 4.881E-05 5.451E-05 6.021E-05 6.591E-05 7.161E-05 7.731E-05 8.301E-05 8.871E-05 9.441E-05
	10	25459.9	203.68	1.1956 2.3815 3.5873 4.7751 0.5 7.51E-05 1.052E-04 1.327E-04 1.887E-05 2.457E-05 3.027E-05 3.597E-05 4.167E-05 4.737E-05 5.307E-05 5.877E-05 6.447E-05 7.017E-05 7.587E-05 8.157E-05 8.727E-05
	11	24092.8	192.74	1.1316 2.2631 3.3947 4.5822 0.5 7.11E-05 1.007E-04 1.282E-04 1.842E-05 2.412E-05 2.982E-05 3.552E-05 4.122E-05 4.692E-05 5.262E-05 5.832E-05 6.402E-05 6.972E-05 7.542E-05 8.112E-05 8.682E-05
	12	22725.6	181.81	1.0674 2.1347 3.2021 4.2904 0.5 6.70E-05 1.060E-04 1.339E-04 1.900E-05 2.470E-05 3.040E-05 3.610E-05 4.180E-05 4.750E-05 5.320E-05 5.890E-05 6.460E-05 7.030E-05 7.600E-05 8.170E-05 8.740E-05
	13	21358.7	170.87	1.0031 2.0085 3.0064 4.0126 0.5 6.30E-05 9.90E-05 1.269E-04 1.830E-05 2.400E-05 2.970E-05 3.540E-05 4.110E-05 4.680E-05 5.250E-05 5.820E-05 6.390E-05 6.960E-05 7.530E-05 8.100E-05 8.670E-05
	14	19991.6	159.83	1.8779 0.8238 2.6108 3.7578 0.5 5.90E-05 8.50E-05 1.118E-04 1.688E-04 2.258E-05 2.828E-05 3.398E-05 3.968E-05 4.538E-05 5.108E-05 5.678E-05 6.248E-05 6.818E-05 7.388E-05 7.958E-05 8.528E-05
	15	18624.5	149.00	1.8747 1.7485 2.6242 3.8680 0.5 5.49E-05 8.09E-05 1.079E-04 1.649E-04 2.219E-05 2.789E-05 3.359E-05 3.929E-05 4.499E-05 5.069E-05 5.639E-05 6.209E-05 6.779E-05 7.349E-05 7.919E-05 8.489E-05
	16	17257.4	136.08	1.8108 1.6816 2.4211 3.2416 0.5 5.09E-05 7.68E-05 1.040E-04 1.610E-04 2.180E-05 2.750E-05 3.320E-05 3.890E-05 4.460E-05 5.030E-05 5.600E-05 6.170E-05 6.740E-05 7.310E-05 7.880E-05 8.450E-05
	17	15890.4	127.12	1.7483 1.6492 2.2360 3.0853 0.5 4.69E-05 7.27E-05 9.881E-05 1.357E-05 1.927E-05 2.497E-05 3.067E-05 3.637E-05 4.207E-05 4.777E-05 5.347E-05 5.917E-05 6.487E-05 7.057E-05 7.627E-05 8.197E-05 8.767E-05
	18	14523.3	116.19	1.6821 1.5642 2.0463 2.7264 0.5 4.29E-05 6.81E-05 9.412E-05 1.142E-05 1.712E-05 2.282E-05 2.852E-05 3.422E-05 3.992E-05 4.562E-05 5.132E-05 5.702E-05 6.272E-05 6.842E-05 7.412E-05 7.982E-05 8.552E-05
	19	13156.2	105.29	1.6179 1.2556 2.6537 3.8537 0.5 3.89E-05 6.40E-05 8.993E-05 1.071E-05 1.641E-05 2.211E-05 2.781E-05 3.351E-05 3.921E-05 4.491E-05 5.061E-05 5.631E-05 6.201E-05 6.771E-05 7.341E-05 7.911E-05 8.481E-05
	20	11789.1	94.31	1.5637 1.1074 2.4146 3.6111 0.5 3.49E-05 5.98E-05 8.58E-05 1.038E-05 1.608E-05 2.178E-05 2.748E-05 3.318E-05 3.888E-05 4.458E-05 5.028E-05 5.608E-05 6.178E-05 6.748E-05 7.318E-05 7.888E-05
	21	10422.1	83.36	1.4985 0.9790 2.2421 2.4316 0.5 3.07E-05 5.57E-05 7.177E-05 8.767E-05 1.036E-05 1.606E-05 2.176E-05 2.746E-05 3.316E-05 3.886E-05 4.456E-05 5.026E-05 5.606E-05 6.176E-05 6.736E-05 7.306E-05
	22	9055.0	72.44	1.4253 0.8508 1.9420 2.2300 0.5 2.67E-05 5.177E-05 6.767E-05 8.357E-05 9.947E-05 1.564E-05 2.134E-05 2.704E-05 3.274E-05 3.844E-05 4.414E-05 5.004E-05 5.574E-05 6.144E-05 6.714E-05 7.284E-05
	23	7887.9	61.50	1.3611 0.7222 1.8032 2.0463 0.5 2.27E-05 4.777E-05 6.367E-05 7.957E-05 9.547E-05 1.515E-05 2.085E-05 2.655E-05 3.225E-05 3.805E-05 4.375E-05 4.945E-05 5.515E-05 6.085E-05 6.655E-05 7.225E-05
	24	6320.6	50.57	1.2949 0.5637 1.6817 2.1216 0.5 1.87E-05 4.377E-05 5.967E-05 7.557E-05 9.147E-05 1.474E-05 2.044E-05 2.614E-05 3.184E-05 3.754E-05 4.324E-05 4.894E-05 5.464E-05 6.034E-05 6.604E-05 7.174E-05
	25	4953.7	36.63	0.2327 0.4653 0.8860 0.9306 0.5 1.46E-05 2.96E-05 4.46E-05 5.96E-05 7.46E-05 1.01E-05 1.51E-05 2.01E-05 2.51E-05 3.01E-05 3.51E-05 4.01E-05 4.51E-05 5.01E-05 5.51E-05 6.01E-05
	26	3586.7	26.66	0.1945 0.3598 0.5954 0.6734 0.5 1.05E-05 1.55E-05 2.05E-05 2.55E-05 3.05E-05 4.117E-05 4.617E-05 5.117E-05 5.617E-05 6.117E-05 6.617E-05 7.117E-05 7.617E-05 8.117E-05 8.617E-05
	27	2219.6	17.76	0.1042 0.2046 0.3127 0.4170 0.5 6.27E-05 9.77E-05 1.327E-05 1.677E-05 2.027E-05 2.517E-05 2.967E-05 3.417E-05 3.867E-05 4.317E-05 4.767E-05 5.217E-05 5.667E-05 6.117E-05 6.567E-05 7.017E-05
	28	652.5	6.62	0.0400 0.0861 0.1802 0.2592 0.5 3.27E-05 4.777E-05 5.967E-05 7.157E-05 8.347E-05 9.537E-05 1.073E-05 1.193E-05 1.313E-05 1.433E-05 1.553E-05 1.673E-05 1.793E-05 1.913E-05 2.033E-05 2.153E-05
	29	0.0	0.0000 0.0000 0.0000 0.0000 0.5 0.000E+00	
	30	0.0	0.0000 0.0000 0.0000 0.0000 0.5 0.000E+00	
	31	0.0	0.0000 0.0000 0.0000 0.0000 0.5 0.000E+00	
	32	0.0	0.0000 0.0000 0.0000 0.0000 0.5 0.000E+00	
	33	0.0	0.0000 0.0000 0.0000 0.0000 0.5 0.000E+00	
	34	0.0	0.0000 0.0000 0.0000 0.0000 0.5 0.000E+00	
	35	0.0	0.0000 0.0000 0.0000 0.0000 0.5 0.000E+00	

EXPOSURE PARAMETERS

DAILY WORK HOURS: 8

ANNUAL EXPOSURE (mg/day): 15300/45,800

TOTAL WORK INTERVAL (yr): 10

AVERAGE LIFETIME (yr): 70

AVERAGE PICKING RATE (kg/hour): 307

DERMAL ABS. FACT. #1 (mg/day): 10

DERMAL ABS. FACT. #2 (mg/day): 10

DERMAL ABS. FACT. #3 (mg/day): 10

DERMAL ABS. FACT. #4 (mg/day): 10

DERMAL ABS. FACT. #5 (mg/day): 10

DERMAL ABS. FACT. #6 (mg/day): 10

DERMAL ABS. FACT. #7 (mg/day): 10

DERMAL ABS. FACT. #8 (mg/day): 10

DERMAL ABS. FACT. #9 (mg/day): 10

DERMAL ABS. FACT. #10 (mg/day): 10

DERMAL ABS. FACT. #11 (mg/day): 10

DERMAL ABS. FACT. #12 (mg/day): 10

DERMAL ABS. FACT. #13 (mg/day): 10

DERMAL ABS. FACT. #14 (mg/day): 10

DERMAL ABS. FACT. #15 (mg/day): 10

DERMAL ABS. FACT. #16 (mg/day): 10

DERMAL ABS. FACT. #17 (mg/day): 10

DERMAL ABS. FACT. #18 (mg/day): 10

DERMAL ABS. FACT. #19 (mg/day): 10

DERMAL ABS. FACT. #20 (mg/day): 10

DERMAL ABS. FACT. #21 (mg/day): 10

DERMAL ABS. FACT. #22 (mg/day): 10

DERMAL ABS. FACT. #23 (mg/day): 10

DERMAL ABS. FACT. #24 (mg/day): 10

DERMAL ABS. FACT. #25 (mg/day): 10

DERMAL ABS. FACT. #26 (mg/day): 10

DERMAL ABS. FACT. #27 (mg/day): 10

DERMAL ABS. FACT. #28 (mg/day): 10

DERMAL ABS. FACT. #29 (mg/day): 10

DERMAL ABS. FACT. #30 (mg/day): 10

DERMAL ABS. FACT. #31 (mg/day): 10

DERMAL ABS. FACT. #32 (mg/day): 10

DERMAL ABS. FACT. #33 (mg/day): 10

DERMAL ABS. FACT. #34 (mg/day): 10

DERMAL ABS. FACT. #35 (mg/day): 10

DERMAL ABS. FACT. #36 (mg/day): 10

DERMAL ABS. FACT. #37 (mg/day): 10

DERMAL ABS. FACT. #38 (mg/day): 10

**REVIEW OF CHLOROTOLONYL FOLIAR DISLODGEABLE RESIDUE/EXPOSURE STUDY
LADE RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIVE
ALL LADE RISK VALUES BASED ON INSIDE EXPOSURE LEVELS**

PPA SUPPORT TASK 2110-002
ERSAR INC. #1583 JLD
EFFECTIVE USE OF CHLOROCHLOR FOLIAR DISLOCAGEABLE RESIDUE/EXPOSURE STUDY
LADE RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVELS
ALL LADE RISK VALUES BASED ON INSIDE EXPOSURE LEVELS

REVIEW OF CHLORTALONIL FOAM DISLOCGEABLE RESIDUE/EXPOSURE STUDY

LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADERISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY	EXPOSURE LEVELS	EXPOSURE FACTOR	EXPOSURE (mg/day)	LADERISK CALCULATIONS (mg/day)				DERMAL ABSORPTION FACTOR #1				DERMAL ABSORPTION FACTOR #2			
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS
TOTAL INSIDE	0	36130.7	(ug/hour)	313.05	3.6757	5.5135	7.3514	1.44E-03	2.688E-03	4.332E-03	5.778E-03	2.688E-03	6.778E-03	8.08E-03	9.11E-03	1.11E-03
1	37765.6	(ug/hour)	302.11	1.7736	3.5473	5.3209	7.0845	1.394E-03	2.707E-03	4.161E-03	5.574E-03	2.707E-03	5.574E-03	6.30E-03	7.11E-03	8.08E-03
2	34396.5	(ug/hour)	261.17	1.7004	3.4169	5.1283	6.8377	1.343E-03	2.686E-03	4.029E-03	5.372E-03	2.686E-03	5.372E-03	6.00E-03	6.70E-03	7.07E-03
3	35029.5	(ug/hour)	260.24	1.8452	3.2904	4.8257	8.8609	1.282E-03	2.585E-03	3.670E-03	5.171E-03	2.585E-03	5.171E-03	5.93E-03	6.03E-03	6.103E-03
4	33682.4	(ug/hour)	259.30	1.9810	3.1820	4.7430	8.3240	1.245E-03	2.484E-03	3.672E-03	4.989E-03	2.484E-03	4.989E-03	5.74E-03	5.94E-03	6.04E-03
5	32295.3	(ug/hour)	258.36	1.5168	3.0336	4.5604	8.0872	1.192E-03	2.394E-03	3.572E-03	4.707E-03	2.394E-03	4.707E-03	5.52E-03	5.71E-03	5.92E-03
6	30629.2	(ug/hour)	247.43	1.4528	2.8052	4.3578	7.8104	1.141E-03	2.263E-03	3.424E-03	4.505E-03	2.263E-03	4.505E-03	5.30E-03	5.46E-03	5.65E-03
7	28561.2	(ug/hour)	236.48	1.3884	2.7763	4.1862	5.8539	1.091E-03	2.162E-03	3.275E-03	4.364E-03	2.162E-03	4.364E-03	5.15E-03	5.32E-03	5.73E-03
8	28194.1	(ug/hour)	225.55	1.3242	2.6464	3.9728	5.2897	1.040E-03	2.081E-03	3.121E-03	4.162E-03	2.081E-03	4.162E-03	5.02E-03	5.32E-03	5.32E-03
9	28827.0	(ug/hour)	214.62	1.2800	2.5200	3.7799	5.0369	9.80E-04	2.000E-03	3.000E-03	4.000E-03	2.000E-03	4.000E-03	3.94E-03	4.000E-03	4.000E-03
10	25159.9	(ug/hour)	203.66	1.1658	2.3615	3.5973	4.7931	9.380E-04	1.879E-03	2.810E-03	3.754E-03	1.879E-03	3.754E-03	3.76E-03	3.84E-03	3.92E-03
11	24092.6	(ug/hour)	192.74	1.1316	2.2531	3.3947	4.5882	8.891E-04	1.778E-03	2.687E-03	3.546E-03	1.778E-03	3.546E-03	3.54E-03	3.62E-03	3.71E-03
12	22725.6	(ug/hour)	181.81	1.0874	2.1547	3.2021	4.2894	8.380E-04	1.677E-03	2.510E-03	3.365E-03	1.677E-03	3.365E-03	3.35E-03	3.43E-03	3.61E-03
13	21358.7	(ug/hour)	170.87	1.0031	2.0063	3.0084	4.0129	7.902E-04	1.576E-03	2.395E-03	3.153E-03	1.576E-03	3.153E-03	3.13E-03	3.22E-03	3.31E-03
14	19891.6	(ug/hour)	159.93	0.9336	1.8779	2.6186	3.7558	7.377E-04	1.475E-03	2.212E-03	2.951E-03	1.475E-03	2.951E-03	2.861E-03	2.95E-03	3.00E-03
15	18824.5	(ug/hour)	148.00	0.8747	1.7495	2.6242	3.4460	6.973E-04	1.375E-03	2.092E-03	2.749E-03	1.375E-03	2.749E-03	2.74E-03	2.81E-03	2.92E-03
16	17257.4	(ug/hour)	136.06	0.8105	1.6211	2.4316	3.2421	6.386E-04	1.274E-03	1.911E-03	2.547E-03	1.274E-03	2.547E-03	2.54E-03	2.67E-03	2.80E-03
17	15890.4	(ug/hour)	127.12	0.7463	1.4923	2.2390	2.9053	5.864E-04	1.173E-03	1.758E-03	2.348E-03	1.173E-03	2.348E-03	2.34E-03	2.48E-03	2.63E-03
18	14523.3	(ug/hour)	116.19	0.6821	1.3642	2.0493	2.7294	5.359E-04	1.072E-03	1.608E-03	2.144E-03	1.072E-03	2.144E-03	2.14E-03	2.22E-03	2.38E-03
19	13156.2	(ug/hour)	105.25	0.6157	1.2556	1.8637	2.4716	4.895E-04	9.710E-04	1.488E-03	1.942E-03	9.710E-04	1.942E-03	1.91E-03	2.01E-03	2.08E-03
20	11791.9	(ug/hour)	94.31	0.5597	1.1074	1.9811	2.2146	4.250E-04	8.701E-04	1.302E-03	1.740E-03	8.701E-04	1.740E-03	1.74E-03	1.81E-03	1.88E-03
21	10422.1	(ug/hour)	83.36	0.4885	0.8700	1.4685	1.6560	3.449E-04	7.002E-04	1.154E-03	1.583E-03	7.002E-04	1.583E-03	1.58E-03	1.65E-03	1.71E-03
22	9055.0	(ug/hour)	72.44	0.4253	0.6509	1.2758	1.7011	3.342E-04	6.883E-04	1.002E-03	1.307E-03	6.883E-04	1.307E-03	1.30E-03	1.37E-03	1.47E-03
23	7687.9	(ug/hour)	61.50	0.3611	0.7222	1.0532	1.4443	3.674E-04	8.511E-04	1.155E-03	1.574E-03	8.511E-04	1.574E-03	1.57E-03	1.65E-03	1.76E-03
24	6320.6	(ug/hour)	50.57	0.2939	0.5637	0.9000	1.1875	2.332E-04	4.965E-04	6.998E-04	9.330E-04	4.965E-04	9.330E-04	9.30E-04	1.04E-03	1.10E-03
25	4953.7	(ug/hour)	39.63	0.2327	0.4653	0.6800	0.9309	1.828E-04	3.656E-04	5.404E-04	7.312E-04	3.656E-04	7.312E-04	7.31E-04	7.31E-04	7.31E-04
26	3586.7	(ug/hour)	28.69	0.1885	0.3368	0.5054	0.8730	1.523E-04	2.647E-04	3.971E-04	5.294E-04	2.647E-04	5.294E-04	5.284E-04	5.31E-04	5.38E-04
27	2219.6	(ug/hour)	17.76	0.1042	0.2065	0.3127	0.4170	8.181E-05	1.457E-04	2.457E-04	3.276E-04	1.457E-04	3.276E-04	3.27E-04	3.41E-04	3.61E-04
28	652.5	(ug/hour)	6.82	0.0400	0.0801	0.1201	0.1902	3.147E-05	6.202E-05	9.438E-05	1.258E-04	6.202E-05	1.258E-04	1.256E-04	1.35E-04	1.57E-04
29	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
30	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
31	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
32	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
33	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
34	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
35	0.0	(ug/hour)	0.00	0.0000	0.0000	0.0000	0.0000	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR DAILY WORK INTERVAL (hr/day)

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * (ANNUAL EXPOSURE (days/1000) / (DERMAL ABS. FACTOR * 100))

* RISK = (LADE(mg/day) * Q1*(mg/kg/day) * Dermal Abs. Factor * 100) / (Body Weight(kg))

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REVIEW OF CHLOROHALOGENIC ACID DISLOCABE RESIDUE/EXPOSURE STUDY

ADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELAT

ALL LADERISK VALUES BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (80MM) LEVELS

EXPOSURE

APPA SUPPORT TASK #210.003
VERITAS INC. #1583 JLD
REVIEW OF CHLOROTHALONIOL FOAM DISLOCGEABLE RESIDUE/EXPOSURE STUDY
ADVERSE RISK ASSESSMENTS USING EXPOSURES CALCULATED BASED ON THE RELATED
ALL LADEKISK VALUES BASED ON INSIDE EXPOSURE LEVELS

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PRA SUPPORT TASK 2110 003

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REVIEW OF CHLOROTHALONIL FOLIAR DISLOCAGEABLE RESIDUE/EXPOSURE STUDY
LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

EXPOSURE PARAMETERS		DERMAL ABSORPTION FACTOR #1									
DAILY WORK HOURS:	6	ANNUAL EXPOSURE (mg/day):	15/30/45/60	TOTAL WORK INTERVAL (yr):	10	AVERAGE LIFETIME (yr):	70	DERMAL ABS. FACT. #1 (%):	100	DERMAL ABS. FACT. #2 (%):	50
DESCRIPTION		DERMAL ABSORPTION FACTOR #2									
STUDY	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE
DAY	LEVELS	(mg/day)	(mg/day)	(mg/day)	(mg/day)	(mg/day)	(mg/day)	(mg/day)	(mg/day)	(mg/day)	(mg/day)
		15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	60 DAYS

LADE CALCULATIONS											
STUDY		EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE	EXPOSURE
DAY	LEVELS	(mg/day)	(mg/day)	(mg/day)	(mg/day)	(mg/day)	(mg/day)	(mg/day)	(mg/day)	(mg/day)	(mg/day)
		15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	60 DAYS
0	125.535 (ug/lb picked)	306.32	5.4353	7.2404	2.84E-04	5.530E-04	5.889E-04	1.139E-04	1.422E-04	2.84E-04	4.251E-04
1	121.653 (ug/lb picked)	286.52	5.2782	7.0337	2.783E-04	5.528E-04	5.842E-04	1.108E-04	1.382E-04	2.783E-04	4.145E-04
2	118.368 (ug/lb picked)	290.71	3.4134	5.1202	6.6288	2.882E-04	5.364E-04	8.048E-04	1.073E-04	1.341E-04	4.022E-04
3	114.783 (ug/lb picked)	261.91	3.3101	4.9051	6.8301	2.801E-04	5.039E-04	7.589E-04	1.040E-04	1.302E-04	5.202E-04
4	111.198 (ug/lb picked)	273.10	3.2097	4.6100	6.4134	2.589E-04	4.877E-04	7.319E-04	9.753E-04	1.210E-04	3.779E-04
5	107.613 (ug/lb picked)	284.30	3.1033	4.6549	6.2000	2.498E-04	4.877E-04	7.073E-04	9.587E-04	1.179E-04	4.877E-04
6	104.026 (ug/lb picked)	255.48	1.5003	4.4098	5.9898	2.267E-04	4.714E-04	6.912E-04	1.179E-04	2.357E-04	5.394E-04
7	100.443 (ug/lb picked)	246.60	2.8805	4.3448	5.7630	2.276E-04	4.714E-04	6.828E-04	1.103E-04	1.514E-04	4.582E-04
8	96.858 (ug/lb picked)	237.76	1.9988	4.1697	5.5693	2.195E-04	4.389E-04	6.584E-04	1.077E-04	1.492E-04	4.389E-04
9	93.273 (ug/lb picked)	228.06	1.3448	2.6898	4.0348	5.370E-04	2.119E-04	4.227E-04	6.340E-04	8.454E-04	1.057E-04
10	89.687 (ug/lb picked)	220.27	1.2932	2.5864	3.8798	6.1127	2.032E-04	4.084E-04	6.098E-04	8.129E-04	1.018E-04
11	86.102 (ug/lb picked)	211.47	1.2415	2.4430	3.7245	4.8690	1.861E-04	3.902E-04	6.853E-04	8.755E-05	1.181E-04
12	82.517 (ug/lb picked)	202.66	1.1984	2.3798	3.5984	4.7192	1.807E-04	3.739E-04	6.008E-04	8.448E-05	1.170E-04
13	78.932 (ug/lb picked)	193.86	1.1381	2.2792	3.4143	4.5224	1.748E-04	3.577E-04	5.305E-04	8.052E-05	1.170E-04
14	75.347 (ug/lb picked)	185.05	1.0864	2.1728	3.2592	4.3457	1.707E-04	3.414E-04	5.122E-04	7.598E-05	1.170E-04
15	71.762 (ug/lb picked)	178.25	1.0347	2.0894	3.1042	4.1509	1.682E-04	3.252E-04	5.079E-04	7.130E-05	1.129E-04
16	68.177 (ug/lb picked)	167.44	0.9830	1.9601	2.9481	3.9621	1.548E-04	3.090E-04	4.934E-04	6.719E-04	1.071E-04
17	64.592 (ug/lb picked)	156.64	0.8313	1.8627	3.7253	3.7523	1.404E-04	2.897E-04	4.394E-04	7.311E-05	1.019E-04
18	61.007 (ug/lb picked)	148.83	0.8798	1.7593	2.6569	3.5190	1.362E-04	2.766E-04	4.197E-04	5.528E-04	1.062E-04
19	57.422 (ug/lb picked)	141.03	0.8260	1.6859	2.4639	3.3118	1.301E-04	2.602E-04	3.803E-04	5.024E-04	1.052E-04
20	53.837 (ug/lb picked)	132.22	0.7783	1.5225	3.1060	1.220E-04	2.440E-04	3.600E-04	4.878E-04	5.094E-04	1.030E-04
21	50.252 (ug/lb picked)	123.42	0.7248	1.4401	2.1737	2.8683	1.139E-04	2.277E-04	3.410E-04	4.584E-04	9.904E-05
22	46.667 (ug/lb picked)	114.61	0.6729	1.3458	2.0160	2.8815	1.087E-04	2.115E-04	3.172E-04	4.200E-04	9.586E-04
23	43.081 (ug/lb picked)	105.81	0.8912	1.2424	1.8605	2.4047	9.781E-05	1.852E-04	3.005E-04	4.861E-05	9.781E-05
24	39.496 (ug/lb picked)	97.00	0.5685	1.1390	1.7065	2.2770	8.946E-05	1.700E-04	2.805E-04	4.775E-04	9.348E-05
25	35.911 (ug/lb picked)	86.20	0.5178	1.0346	1.5634	2.0712	8.047E-05	1.622E-04	2.644E-04	4.086E-04	9.137E-05
26	32.326 (ug/lb picked)	78.36	0.4861	0.9322	1.4401	1.8644	7.325E-05	1.468E-04	2.330E-04	3.879E-04	8.906E-05
27	28.741 (ug/lb picked)	70.59	0.4144	0.8266	1.2432	1.8577	6.612E-05	1.302E-04	2.030E-04	3.267E-05	8.519E-05
28	25.156 (ug/lb picked)	61.78	0.3627	0.7254	1.0825	1.4508	6.105E-05	1.140E-04	1.710E-04	2.800E-05	8.190E-05
29	21.571 (ug/lb picked)	52.96	0.3110	0.6221	0.8331	1.2441	4.848E-05	9.775E-05	1.408E-04	2.444E-05	7.311E-05
30	17.986 (ug/lb picked)	44.17	0.2863	0.5187	0.7760	1.0373	4.079E-05	6.151E-05	1.223E-04	1.803E-04	6.151E-05
31	14.401 (ug/lb picked)	35.37	0.2078	0.4153	0.6229	0.8200	3.283E-05	5.528E-05	1.031E-04	1.603E-04	5.528E-05
32	10.816 (ug/lb picked)	26.56	0.1960	0.3118	0.4678	0.8226	2.451E-05	4.901E-05	7.392E-05	9.003E-05	4.801E-05
33	7.231 (ug/lb picked)	17.76	0.1043	0.2095	0.3128	0.4170	1.629E-05	3.277E-05	4.915E-05	6.543E-05	3.277E-05
34	3.846 (ug/lb picked)	6.95	0.0826	0.1051	0.1877	0.2103	8.200E-06	1.852E-06	2.478E-05	4.130E-06	1.828E-05
35	0.081 (ug/lb picked)	0.15	0.0008	0.0017	0.0028	0.0026	1.374E-07	2.717E-07	4.121E-07	6.482E-07	1.374E-07

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/tomatoes picked) * PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (N=7 + 1 = 32 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * ANNUAL EXPOSURE (kg/year) * AVERAGE (kg/tomato) * BODY WEIGHT (kg)

* RISK = [LADE(mg/day) * Q1 *(mg/kg/day)] / (DERMAL ABS. FACTOR(100)) * (BODY WEIGHT(kg))

LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADERISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

EXPOSURE PARAMETERS		TOXICOLOGICAL PARAMETERS									
		DAILY WORK HOURS:		ANNUAL EXPOSURE (day):		TOTAL WORK INTERVAL (yr):		AVERAGE WEIGHT:		CHLOROTHALONIUM Q1 (mg/kg/day)-1:	
		8 15/30/45/60		20		20		70		70	
		DERMAL ABS. FACT. #1 (%):		DERMAL ABS. FACT. #2 (%):		DERMAL ABS. FACT. #3 (%):		DERMAL ABS. FACT. #4 (%):		DERMAL ABS. FACT. #5 (%):	
		100		100		100		50		50	
DESCRIPTION		STUDY		EXPOSURE LEVELS		LADE CALCULATIONS		RISK ANALYSIS		DERMAL ABSORPTION FACTOR #1	
DAY		EXPOSURE FACTOR		(mg/day)		15 DAYS		30 DAYS		45 DAYS	
TOTAL INSIDE		0		125.538		7.2404		10.4800		15.0806	
1		121.953		(ug/lb picked)		266.52		3.5198		7.0337	
2		118.386		(ug/lb picked)		290.71		3.4194		6.8269	
3		114.783		(ug/lb picked)		281.91		3.3101		6.6201	
4		111.198		(ug/lb picked)		273.10		3.2057		6.4134	
5		107.613		(ug/lb picked)		264.30		3.1053		6.2006	
6		104.026		(ug/lb picked)		255.49		2.9989		5.9995	
7		100.443		(ug/lb picked)		246.68		2.8905		5.7930	
8		96.858		(ug/lb picked)		237.85		2.7931		5.5963	
9		93.273		(ug/lb picked)		229.08		2.6966		5.3793	
10		89.687		(ug/lb picked)		220.27		2.5984		5.1727	
11		86.102		(ug/lb picked)		211.47		2.4830		4.9860	
12		82.517		(ug/lb picked)		202.68		2.3786		4.7982	
13		78.932		(ug/lb picked)		193.86		2.2782		4.5924	
14		75.347		(ug/lb picked)		185.05		2.1784		4.3957	
15		71.762		(ug/lb picked)		179.25		2.0894		4.1989	
16		68.177		(ug/lb picked)		167.44		1.9861		3.9921	
17		64.592		(ug/lb picked)		158.64		1.8827		3.7923	
18		61.007		(ug/lb picked)		149.83		1.7835		3.5916	
19		57.422		(ug/lb picked)		141.03		1.6859		3.3918	
20		53.837		(ug/lb picked)		132.22		1.5853		3.1950	
21		50.252		(ug/lb picked)		123.42		1.4849		2.9863	
22		46.667		(ug/lb picked)		114.61		1.3845		2.8877	
23		43.081		(ug/lb picked)		105.81		1.2424		2.7871	
24		39.496		(ug/lb picked)		97.00		1.1380		2.2760	
25		35.911		(ug/lb picked)		85.20		1.0356		2.0712	
26		32.326		(ug/lb picked)		79.39		9.9322		1.9844	
27		28.741		(ug/lb picked)		70.59		8.9286		1.8977	
28		25.156		(ug/lb picked)		61.78		7.9254		1.7958	
29		21.571		(ug/lb picked)		52.99		6.8221		1.2441	
30		17.986		(ug/lb picked)		44.17		5.6187		1.0373	
31		14.401		(ug/lb picked)		35.97		4.6195		8.8206	
32		10.818		(ug/lb picked)		28.56		3.6119		7.8116	
33		7.231		(ug/lb picked)		17.76		2.0265		6.2170	
34		3.646		(ug/lb picked)		6.95		0.1051		2.1013	
35		0.081		(ug/lb picked)		0.15		0.0217		0.0205	

NOTES:

• (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

• EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (807 +/- 52 lbs/hour).

• TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (807 +/- 52 lbs/hour).

• LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (day)]/[AVG. LIFETIME (yr)]

• RISK = [LADE (mg/day) * Q1 * (mg/kg/day)-1] / (DERMAL ABS. FACTOR (100)) / (BODY WEIGHT (kg))

* RISK *

* DAILY HOURS

REVIEW OF CHLOROTHALONIL FOAM DISLOCGEABLE RESIDUE/EXPOSURE STUDY

LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADERISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

STUDY

DAY

LEVELS

EXPOSURE

FACTOR

(mg/day)

EXPOSURE PARAMETERS

DAILY WORK HOURS:

ANNUAL EXPOSURE (days):

TOTAL WORK INTERVAL (yr):

AVERAGE LIFETIME (yr):

AVERAGE PICKING RATE (lb/hour):

TOXICOLOGICAL PARAMETERS

CHLORTHALONIL, O₁st (mg/kg/day):

AVERAGE WEIGHT:

DERMAL ABS. FACT. #1 (%):

DERMAL ABS. FACT. #2 (%):

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DESCRIPTION	STUDY	EXPOSURE DAY	LEVELS	LADE CALCULATIONS												RISK ANALYSIS																			
				15 DAYS			30 DAYS			45 DAYS			60 DAYS			15 DAYS			30 DAYS			45 DAYS			60 DAYS										
		EXPOSURE FACTOR (mg/day)																																	
TOTAL INSIDE	0	125.530	(ug/lb picked)	306.32	1.8101	3.8202	5.4303	7.2404	5.689E-05	1.138E-04	2.270E-04	4.707E-04	1.105E-04	1.658E-04	2.211E-04	2.783E-05	5.528E-05	8.200E-05	1.058E-04	1.388E-04	2.644E-05	6.886E-05	1.138E-04	6.533E-05	1.138E-04	6.533E-05	1.138E-04								
	1	121.953	(ug/lb picked)	296.52	1.7584	3.5168	5.2752	7.0337	5.528E-05	1.105E-04	1.658E-04	2.211E-04	1.080E-04	2.146E-04	1.080E-04	2.882E-05	5.394E-05	8.046E-05	1.073E-04	1.073E-04	2.882E-05	5.394E-05	8.046E-05	1.073E-04	2.882E-05	5.394E-05	8.046E-05	1.073E-04							
	2	118.368	(ug/lb picked)	290.71	1.7087	3.4134	5.1202	6.8201	5.394E-05	1.073E-04	1.080E-04	2.081E-04	1.040E-04	1.500E-04	2.081E-04	2.601E-05	5.201E-05	7.802E-05	1.040E-04	1.040E-04	2.601E-05	5.201E-05	7.802E-05	1.040E-04	2.601E-05	5.201E-05	7.802E-05	1.040E-04							
	3	114.783	(ug/lb picked)	281.91	1.6850	3.3101	4.9851	6.8201	5.394E-05	1.040E-04	1.500E-04	2.081E-04	1.018E-04	1.545E-04	2.010E-04	2.620E-05	5.039E-05	7.559E-05	1.018E-04	1.018E-04	2.620E-05	5.039E-05	7.559E-05	1.018E-04	2.620E-05	5.039E-05	7.559E-05	1.018E-04							
	4	111.198	(ug/lb picked)	273.10	1.6033	3.2097	4.8103	6.8124	5.393E-05	1.008E-04	1.545E-04	2.010E-04	1.008E-04	1.545E-04	2.010E-04	2.630E-05	4.877E-05	6.753E-05	1.045E-04	1.045E-04	2.439E-05	4.877E-05	6.753E-05	1.045E-04	2.439E-05	4.877E-05	6.753E-05	1.045E-04							
	5	107.613	(ug/lb picked)	264.30	1.5516	3.1039	4.6549	6.2036	5.393E-05	1.073E-04	1.485E-04	1.951E-04	1.045E-04	1.485E-04	1.951E-04	2.567E-05	4.714E-05	6.428E-05	1.045E-04	1.045E-04	2.567E-05	4.714E-05	6.428E-05	1.045E-04	2.567E-05	4.714E-05	6.428E-05	1.045E-04							
	6	104.028	(ug/lb picked)	255.49	1.5000	2.9909	4.4999	6.8990	5.393E-05	1.045E-04	1.485E-04	1.951E-04	1.018E-04	1.369E-04	1.821E-04	2.270E-05	4.552E-05	6.103E-05	1.018E-04	1.018E-04	2.270E-05	4.552E-05	6.103E-05	1.018E-04	2.270E-05	4.552E-05	6.103E-05	1.018E-04							
	7	100.443	(ug/lb picked)	246.69	1.4483	2.8665	4.3446	5.7820	4.952E-05	9.103E-05	1.369E-04	1.821E-04	1.018E-04	1.317E-04	1.750E-04	2.170E-05	4.306E-05	5.584E-05	9.103E-05	1.018E-04	1.018E-04	2.170E-05	4.306E-05	5.584E-05	1.018E-04	2.170E-05	4.306E-05	5.584E-05	1.018E-04						
	8	96.858	(ug/lb picked)	237.88	1.3906	2.7631	4.1887	6.5893	4.306E-05	8.778E-05	1.317E-04	1.750E-04	1.018E-04	1.219E-04	1.688E-04	2.070E-05	4.227E-05	5.181E-05	8.778E-05	1.018E-04	1.018E-04	2.070E-05	4.227E-05	5.181E-05	1.018E-04	2.070E-05	4.227E-05	5.181E-05	1.018E-04						
	9	93.273	(ug/lb picked)	229.08	1.3449	2.6899	4.0346	5.3795	4.227E-05	8.454E-05	1.298E-04	1.654E-04	1.018E-04	1.204E-04	1.620E-04	2.049E-05	4.122E-05	5.045E-05	8.454E-05	1.018E-04	1.018E-04	2.049E-05	4.122E-05	5.045E-05	1.018E-04	2.049E-05	4.122E-05	5.045E-05	1.018E-04						
	10	89.687	(ug/lb picked)	220.27	1.2832	2.5984	3.8796	5.1727	4.064E-05	8.128E-05	1.210E-04	1.520E-04	1.018E-04	1.122E-04	1.501E-04	1.917E-05	3.904E-05	5.804E-05	8.128E-05	1.018E-04	1.018E-04	2.032E-05	4.084E-05	6.080E-05	8.128E-05	1.018E-04	2.032E-05	4.084E-05	6.080E-05	8.128E-05	1.018E-04				
	11	85.102	(ug/lb picked)	211.47	1.2415	2.4800	3.7245	4.9890	3.902E-05	7.804E-05	1.171E-04	1.450E-04	1.018E-04	1.122E-04	1.431E-04	1.790E-05	3.759E-05	5.683E-05	8.704E-05	1.018E-04	1.018E-04	2.027E-05	3.759E-05	6.608E-05	7.479E-05	1.018E-04	2.027E-05	3.759E-05	6.608E-05	7.479E-05	1.018E-04				
	12	81.517	(ug/lb picked)	202.68	1.1886	2.3768	3.5768	4.7934	3.757E-05	7.158E-05	1.122E-04	1.348E-04	1.018E-04	1.122E-04	1.431E-04	1.707E-05	3.577E-05	5.317E-05	7.158E-05	1.018E-04	1.018E-04	2.015E-05	3.577E-05	5.317E-05	7.158E-05	1.018E-04	2.015E-05	3.577E-05	5.317E-05	7.158E-05	1.018E-04				
	13	78.932	(ug/lb picked)	193.86	1.1381	2.2782	3.4143	4.5529	3.577E-05	7.158E-05	1.080E-04	1.270E-04	1.018E-04	1.080E-04	1.341E-04	1.670E-05	3.304E-05	5.141E-05	6.828E-05	1.018E-04	1.018E-04	2.045E-05	3.304E-05	5.141E-05	6.828E-05	1.018E-04	2.045E-05	3.304E-05	5.141E-05	6.828E-05	1.018E-04				
	14	75.347	(ug/lb picked)	185.05	1.0834	2.1728	3.2092	4.3457	3.414E-05	7.038E-05	1.040E-04	1.180E-04	1.018E-04	1.040E-04	1.204E-04	1.508E-05	3.204E-05	4.914E-05	6.628E-05	1.018E-04	1.018E-04	2.014E-05	3.204E-05	4.914E-05	6.628E-05	1.018E-04	2.014E-05	3.204E-05	4.914E-05	6.628E-05	1.018E-04				
	15	71.762	(ug/lb picked)	176.25	1.0347	2.0894	3.1042	4.1500	3.250E-05	6.904E-05	9.504E-05	1.750E-04	1.301E-04	1.018E-04	1.301E-04	1.594E-04	1.879E-05	3.000E-05	5.179E-05	6.208E-05	1.018E-04	1.018E-04	2.025E-05	3.000E-05	5.179E-05	6.208E-05	1.018E-04	2.025E-05	3.000E-05	5.179E-05	6.208E-05	1.018E-04			
	16	68.177	(ug/lb picked)	167.44	9.9830	2.9481	3.9302	3.9302	3.000E-05	6.179E-05	6.208E-05	8.208E-05	1.220E-04	1.018E-04	1.018E-04	1.220E-04	1.648E-04	1.948E-05	3.200E-05	5.684E-05	6.179E-05	1.018E-04	1.018E-04	2.027E-05	3.200E-05	5.684E-05	6.179E-05	1.018E-04	2.027E-05	3.200E-05	5.684E-05	6.179E-05	1.018E-04		
	17	64.592	(ug/lb picked)	158.84	9.5313	1.8627	2.7940	3.7253	2.987E-05	5.185E-05	5.084E-05	7.578E-05	1.171E-04	1.018E-04	1.018E-04	1.171E-04	1.484E-04	1.761E-05	3.058E-05	5.837E-05	6.708E-05	1.018E-04	1.018E-04	2.035E-05	3.058E-05	5.837E-05	6.708E-05	1.018E-04	2.035E-05	3.058E-05	5.837E-05	6.708E-05	1.018E-04		
	18	61.007	(ug/lb picked)	149.83	9.0798	1.7893	2.6336	3.5186	2.765E-05	5.529E-05	5.529E-05	7.308E-05	1.108E-04	1.018E-04	1.018E-04	1.108E-04	1.308E-04	1.580E-05	3.024E-05	5.3110	2.002E-05	1.018E-04	1.018E-04	2.040E-05	3.024E-05	5.3110	2.002E-05	1.018E-04	2.040E-05	3.024E-05	5.3110	2.002E-05	1.018E-04		
	19	57.122	(ug/lb picked)	141.03	8.5280	1.6559	2.4286	3.1050	2.440E-05	5.250E-05	5.250E-05	6.779E-05	1.073E-04	1.018E-04	1.018E-04	1.073E-04	1.277E-04	1.537E-05	2.970E-05	4.879E-05	7.310E-05	1.018E-04	1.018E-04	2.077E-05	3.025E-05	5.304E-05	7.310E-05	1.018E-04	2.077E-05	3.025E-05	5.304E-05	7.310E-05	1.018E-04		
	20	53.637	(ug/lb picked)	132.22	7.7793	1.5523	2.2173	2.1737	2.8903	2.277E-05	4.584E-05	4.584E-05	6.179E-05	1.038E-04	1.018E-04	1.018E-04	1.038E-04	1.240E-04	1.504E-05	2.900E-05	4.879E-05	7.310E-05	1.018E-04	1.018E-04	2.077E-05	3.025E-05	5.304E-05	7.310E-05	1.018E-04	2.077E-05	3.025E-05	5.304E-05	7.310E-05	1.018E-04	
	21	50.252	(ug/lb picked)	123.42	7.2748	1.4491	2.0186	2.0186	2.8915	2.118E-05	4.203E-05	4.203E-05	5.940E-05	9.932E-05	1.018E-04	1.018E-04	1.018E-04	1.018E-04	1.197E-04	1.469E-05	2.803E-05	4.694E-05	7.232E-05	1.018E-04	1.018E-04	2.077E-05	3.025E-05	5.304E-05	7.232E-05	1.018E-04	2.077E-05	3.025E-05	5.304E-05	7.232E-05	1.018E-04
	22	48.867	(ug/lb picked)	114.81	6.8729	1.3453	1.9447	1.9447	2.4447	1.895E-05	3.905E-05	3.905E-05	5.309E-05	8.437E-05	1.018E-04	1.018E-04	1.018E-04	1.018E-04	1.197E-04	1.469E-05	2.803E-05	4.694E-05	7.232E-05	1.018E-04	1.018E-04	2.077E-05	3.025E-05	5.304E-05	7.232E-05	1.018E-04	2.077E-05	3.025E-05	5.304E-05	7.232E-05	1.018E-04
	23	43.081	(ug/lb picked)	105.81	6.0212	1.2424	1.8035	1.8035	2.4447	1.895E-05	3.905E-05	3.905E-05	5.309E-05	8.437E-05	1.018E-04	1.018E-04	1.018E-04	1.018E-04	1.197E-04	1.469E-05	2.803E-05	4.694E-05	7.232E-05	1.018E-04	1.018E-04	2.077E-05	3.025E-05	5.304E-05	7.2						

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY
LADE RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY	EXPOSURE	LEVELS	FACTOR	(mg/day)	LADE CALCULATIONS						RISK ANALYSIS								
						15 DAYS	30 DAYS	45 DAYS	60 DAYS	16 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS			
TOTAL INSIDE	0	125.536	(ug/lb picked)		300.32	7.2404	10.8608	14.4800	1.38E-04	2.27E-04	3.41E-04	4.55E-04	5.68E-05	1.38E-04	1.70E-04	2.27E-04	2.27E-04			
	1	121.953	(ug/lb picked)		296.52	3.5166	7.0337	10.5505	1.04E-04	1.05E-04	2.21E-04	4.42E-04	5.32E-05	1.05E-04	1.65E-04	2.21E-04	2.21E-04			
	2	115.366	(ug/lb picked)		280.71	3.4134	6.8289	10.2403	13.6536	1.073E-04	2.148E-04	3.218E-04	4.291E-04	5.38E-05	1.073E-04	1.608E-04	2.148E-04	2.148E-04		
	3	114.753	(ug/lb picked)		281.81	3.3101	6.8201	6.4134	6.8202	13.2002	1.040E-04	2.061E-04	3.121E-04	4.181E-04	5.202E-05	1.040E-04	1.580E-04	2.08E-04		
	4	111.183	(ug/lb picked)		273.10	3.2067	6.2067	6.8207	7.0287	1.006E-04	2.012E-04	3.023E-04	4.031E-04	5.038E-05	1.006E-04	1.512E-04	2.018E-04	2.018E-04		
	5	107.813	(ug/lb picked)		264.30	3.1033	6.2056	6.3036	9.428E-05	12.4132	9.753E-05	1.051E-04	2.928E-04	3.801E-04	4.877E-05	9.753E-05	1.462E-04	1.98E-04		
	6	104.428	(ug/lb picked)		255.49	2.9999	5.9996	6.19997	11.9996	9.428E-05	1.089E-04	2.628E-04	3.771E-04	4.714E-05	9.428E-05	1.414E-04	1.948E-04	1.948E-04		
	7	100.443	(ug/lb picked)		246.60	2.8665	5.7630	5.8665	11.5601	9.103E-05	1.621E-04	2.731E-04	3.841E-04	4.502E-05	9.103E-05	1.308E-04	1.821E-04	1.821E-04		
	8	96.858	(ug/lb picked)		237.88	2.7931	5.5083	5.7794	6.3794	1.172E-05	1.778E-04	2.054E-04	3.111E-04	3.778E-05	1.778E-04	1.317E-04	1.794E-04	1.794E-04		
	9	93.273	(ug/lb picked)		229.06	2.6995	5.3795	5.6995	10.7995	9.045E-05	1.891E-04	2.539E-04	3.261E-04	4.227E-05	8.945E-05	1.239E-04	1.881E-04	1.881E-04		
	10	89.887	(ug/lb picked)		220.27	2.5984	5.1727	5.7791	10.3935	9.128E-05	1.920E-04	2.439E-04	3.251E-04	4.064E-05	8.128E-05	1.219E-04	1.628E-04	1.628E-04		
	11	86.102	(ug/lb picked)		211.47	2.4830	4.9860	7.4460	9.8219	8.804E-05	1.561E-04	3.241E-04	3.121E-04	3.902E-05	7.804E-05	1.171E-04	1.501E-04	1.501E-04		
	12	82.517	(ug/lb picked)		202.66	2.3798	4.7592	6.2798	7.8041	9.103E-05	1.598E-04	2.244E-04	2.444E-04	2.98E-04	3.739E-05	7.904E-05	1.122E-04	1.498E-04	1.498E-04	
	13	78.932	(ug/lb picked)		193.80	2.2772	4.5272	6.6226	9.1049	7.154E-05	1.631E-04	2.148E-04	2.148E-04	2.869E-05	3.977E-05	7.154E-05	1.073E-04	1.431E-04	1.431E-04	
	14	75.347	(ug/lb picked)		185.05	2.1728	4.3457	6.5168	8.9813	8.828E-05	1.386E-04	2.048E-04	2.048E-04	2.732E-05	3.414E-05	6.828E-05	1.024E-04	1.388E-04	1.388E-04	
	15	71.762	(ug/lb picked)		176.25	2.0894	4.1986	6.2093	8.2093	6.277E-05	1.504E-04	1.901E-04	2.002E-04	2.352E-05	6.504E-05	9.504E-05	1.301E-04	1.758E-04	1.758E-04	
	16	68.177	(ug/lb picked)		167.44	1.9861	3.9321	5.8862	7.8862	7.179E-05	1.238E-04	1.858E-04	2.472E-04	3.000E-05	6.179E-05	9.277E-05	1.226E-04	1.226E-04	1.226E-04	
	17	64.592	(ug/lb picked)		158.64	1.8827	3.7253	5.7580	7.4937	5.884E-05	1.171E-04	1.758E-04	2.342E-04	2.827E-05	6.358E-05	9.791E-05	1.171E-04	1.171E-04	1.171E-04	
	18	61.007	(ug/lb picked)		149.83	1.7593	3.5186	5.2778	7.0372	5.528E-05	1.108E-04	1.659E-04	2.212E-04	2.709E-05	5.928E-05	9.294E-05	1.108E-04	1.108E-04	1.108E-04	
	19	57.422	(ug/lb picked)		141.03	1.6559	3.3118	4.9877	6.9220	5.204E-05	1.041E-04	1.561E-04	2.082E-04	2.602E-05	5.204E-05	9.002E-05	1.041E-04	1.432E-04	1.432E-04	
	20	53.837	(ug/lb picked)		132.22	1.5825	3.1050	4.8678	6.2101	4.879E-05	9.779E-05	1.484E-04	1.952E-04	2.440E-04	2.947E-05	6.731E-05	9.731E-05	1.301E-04	1.758E-04	1.758E-04
	21	50.252	(ug/lb picked)		123.42	1.4841	2.9893	4.3474	5.7695	4.554E-05	8.108E-05	1.386E-04	1.826E-04	2.477E-04	3.030E-05	6.359E-05	9.321E-05	1.080E-03	1.437E-04	1.437E-04
	22	46.667	(ug/lb picked)		114.81	1.3450	2.8615	4.0373	5.5830	4.230E-05	8.459E-05	1.239E-04	1.739E-04	2.115E-04	2.620E-05	6.344E-05	9.344E-05	8.458E-05	1.171E-04	1.171E-04
	23	43.081	(ug/lb picked)		105.81	1.2424	2.4487	3.7271	4.9896	3.905E-05	7.008E-05	1.171E-04	1.592E-04	2.171E-04	2.709E-05	5.935E-05	9.305E-05	7.905E-05	1.080E-04	1.080E-04
	24	39.498	(ug/lb picked)		97.00	2.2790	3.4169	4.9559	5.500E-05	7.150E-05	1.074E-04	1.432E-04	2.082E-04	2.602E-04	3.360E-05	7.150E-05	1.042E-04	1.432E-04	1.432E-04	
	25	35.911	(ug/lb picked)		88.20	1.0356	2.0712	3.1068	4.1424	3.255E-05	6.509E-05	9.784E-05	1.302E-04	1.627E-04	2.440E-04	3.202E-05	6.255E-05	9.305E-05	6.905E-05	
	26	32.320	(ug/lb picked)		80.822	1.8844	2.6706	5.729E-05	5.205E-05	5.300E-05	8.789E-05	1.172E-04	1.486E-04	2.046E-04	2.630E-05	4.395E-05	9.395E-05	5.800E-05	9.800E-05	
	27	28.741	(ug/lb picked)		70.56	0.8286	1.6577	2.4865	3.1933	2.005E-05	5.210E-05	7.015E-05	1.042E-04	1.302E-04	1.905E-04	2.605E-05	4.305E-05	9.305E-05	5.210E-05	
	28	25.159	(ug/lb picked)		61.76	0.7254	1.4509	2.1763	2.9018	1.230E-05	4.200E-05	6.840E-05	9.120E-05	1.140E-04	1.392E-04	2.020E-05	3.202E-05	4.580E-05	9.380E-05	
	29	21.571	(ug/lb picked)		52.89	0.6221	1.2441	1.9862	2.4862	1.325E-05	3.919E-05	5.928E-05	7.925E-05	9.135E-05	1.074E-04	1.432E-04	2.132E-05	3.232E-05	4.591E-05	
	30	17.985	(ug/lb picked)		44.17	0.5167	1.0373	1.5560	2.0747	1.630E-05	4.880E-05	6.526E-05	8.151E-05	9.151E-05	1.030E-04	1.434E-04	2.142E-05	3.242E-05	4.602E-05	
	31	14.401	(ug/lb picked)		35.37	0.4153	0.6306	1.2450	1.9612	1.305E-05	2.610E-05	5.221E-05	3.916E-05	3.921E-05	2.941E-05	4.901E-05	1.435E-05	2.145E-05	2.810E-05	
	32	10.816	(ug/lb picked)		28.56	0.3119	0.8226	0.9257	1.2476	9.863E-06	1.861E-05	2.921E-05	3.921E-05	3.921E-05	2.941E-05	4.901E-05	1.435E-05	2.145E-05	2.810E-05	
	33	7.231	(ug/lb picked)		17.76	0.2085	0.4170	0.6256	0.6341	1.311E-05	1.909E-05	1.909E-05	1.909E-05	1.909E-05	1.909E-05	1.909E-05	1.909E-05	1.909E-05	1.909E-05	
	34	3.648	(ug/lb picked)		8.95	0.1051	0.2103	0.3154	0.4205	3.304E-06	6.800E-06	9.913E-06	1.322E-05	1.652E-05	3.277E-06	6.320E-06	9.330E-06	1.311E-05	1.600E-05	
	35	0.081	(ug/lb picked)		0.15	0.0017	0.0005	0.0062	0.0070	5.468E-06	1.008E-07	1.848E-07	2.707E-06	5.468E-06	6.242E-06	1.008E-07	1.848E-07	2.707E-06	5.468E-06	

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour * DAILY HOURS OR EXPOSURE (mg/lb tomato picked) * DAILY HOURS)

* TOME TO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 32 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * ANNUAL EXPOSURE (mg/day) * [WORK INTERVAL (hr)/AVG. LIFETIME (yr)]

* RISK = [LADE (mg/day) * Q1 (mg/kg/day)] * (DERMAL ABS. FACTOR/100) / (BODY WEIGHT (kg))

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY

 ALL LADERISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS
 EXPOSURES CALCULATED BASED ON WHOLE TOMATO (ppm) LEVELS

DESCRIPTION	STUDY	EXPOSURE LEVELS	EXPOSURE FACTOR	LADERISK CALCULATIONS (mg/day)				RISK ANALYSIS			
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS
TOTAL INSIDE	0	125.538	(ug/lb picked)	308.32	5.4303	10.8606	16.2610	21.7213	1.707E-04	5.120E-04	6.627E-04
	1	121.853	(ug/lb picked)	269.52	8.2752	10.5605	15.8257	21.1010	1.858E-04	3.310E-04	4.374E-04
	2	116.368	(ug/lb picked)	280.71	5.1202	10.2403	20.3605	20.4807	1.809E-04	4.218E-04	5.208E-04
	3	114.743	(ug/lb picked)	261.91	4.8651	9.8202	14.8853	19.8004	1.800E-04	4.037E-04	5.046E-04
	4	111.198	(ug/lb picked)	273.10	4.8100	9.6200	14.4300	19.2401	1.512E-04	3.121E-04	3.241E-04
	5	107.613	(ug/lb picked)	264.30	4.8549	9.3068	13.8648	18.6198	1.403E-04	2.928E-04	3.805E-04
	6	104.028	(ug/lb picked)	255.49	4.4899	8.9297	13.4996	17.8994	1.414E-04	2.828E-04	3.710E-04
	7	100.443	(ug/lb picked)	246.68	4.3448	8.6686	13.0344	17.3781	1.396E-04	2.731E-04	3.608E-04
	8	96.858	(ug/lb picked)	237.86	4.1897	8.3794	12.5691	16.7588	1.317E-04	2.634E-04	3.517E-04
	9	93.273	(ug/lb picked)	229.06	4.0348	8.0863	12.1039	16.1905	1.288E-04	2.538E-04	3.424E-04
	10	89.687	(ug/lb picked)	220.27	3.8796	7.7591	11.6387	15.5162	1.219E-04	2.438E-04	3.324E-04
	11	86.102	(ug/lb picked)	211.47	3.7245	7.4480	11.1734	14.8079	1.171E-04	2.341E-04	3.231E-04
	12	82.517	(ug/lb picked)	202.66	3.5904	7.1589	10.7082	14.2778	1.122E-04	2.244E-04	3.132E-04
	13	78.932	(ug/lb picked)	193.86	3.4143	6.8206	10.2430	13.8673	1.073E-04	2.146E-04	3.036E-04
	14	75.347	(ug/lb picked)	185.05	3.2592	6.5165	9.7777	13.0270	1.024E-04	2.048E-04	2.937E-04
	15	71.762	(ug/lb picked)	178.25	3.1042	6.2083	8.3125	12.4167	9.798E-05	1.931E-04	2.827E-04
	16	68.177	(ug/lb picked)	167.44	2.9491	5.8902	6.8473	11.7804	9.260E-05	1.845E-04	2.707E-04
	17	64.592	(ug/lb picked)	158.64	2.7940	5.5800	6.3820	11.1700	8.761E-05	1.761E-04	2.616E-04
	18	61.007	(ug/lb picked)	149.83	2.6389	5.2779	7.9168	10.5857	8.294E-05	1.684E-04	2.524E-04
	19	57.422	(ug/lb picked)	141.03	2.4839	4.8877	7.4516	8.0554	7.806E-05	1.604E-04	2.432E-04
	20	53.837	(ug/lb picked)	132.22	2.3288	4.5076	6.0493	8.3151	7.219E-05	1.524E-04	2.332E-04
	21	50.252	(ug/lb picked)	122.42	2.1737	3.8474	5.8211	6.8094	6.832E-05	1.448E-04	2.232E-04
	22	46.667	(ug/lb picked)	114.61	2.0185	3.0373	6.0368	6.0745	6.344E-05	1.372E-04	2.136E-04
	23	43.081	(ug/lb picked)	105.81	1.8635	3.7271	5.5606	7.4842	5.857E-05	1.294E-04	2.057E-04
	24	39.496	(ug/lb picked)	97.00	1.7085	3.4168	5.1254	6.6339	5.390E-05	1.217E-04	2.009E-04
	25	35.911	(ug/lb picked)	98.20	1.5534	3.1068	4.8012	6.2136	4.889E-05	1.149E-04	1.924E-04
	26	32.326	(ug/lb picked)	79.39	1.3983	2.7986	4.1950	4.9533	4.395E-05	1.074E-04	1.835E-04
	27	28.741	(ug/lb picked)	70.59	2.1842	2.4965	3.7287	4.9730	3.907E-05	1.171E-04	1.745E-04
	28	25.156	(ug/lb picked)	61.78	1.0862	2.1763	3.2845	4.5827	3.482E-05	1.092E-04	1.660E-04
	29	21.571	(ug/lb picked)	52.98	0.9331	1.8962	2.7982	3.7323	2.823E-05	9.798E-05	1.583E-04
	30	17.986	(ug/lb picked)	44.17	0.7780	1.5560	2.3340	3.1120	2.445E-05	9.080E-05	1.504E-04
	31	14.401	(ug/lb picked)	35.37	0.6220	1.2450	1.8658	2.4917	1.864E-05	8.310E-05	1.427E-04
	32	10.818	(ug/lb picked)	26.56	0.4679	0.8857	1.4038	1.8714	2.941E-05	4.411E-05	7.352E-05
	33	7.231	(ug/lb picked)	17.76	0.3120	0.6256	0.9385	1.2511	8.820E-06	1.989E-05	4.815E-05
	34	3.846	(ug/lb picked)	6.96	0.1577	0.3154	0.4731	0.6306	4.898E-06	9.913E-06	2.478E-05
	35	0.061	(ug/lb picked)	0.15	0.0026	0.0052	0.0076	0.0105	0.242E-06	4.121E-06	1.242E-07

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OF EXPOSURE (mg/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADERISK = EXPOSURE PER EVENT CYCLE (mg/day) * ANNUAL EXPOSURE (days) * (WORK INTERVAL (hr)/LIFETIME (hr)) * (DERMAL ABS. FACTOR/100) / (BODY WEIGHT (kg))

* RISK = (LADERISK (mg/day) * Q1 * (mg/kg/day)) * DERMAL ABS. FACTOR #1 * DERMAL ABS. FACTOR #2

* RISK = (LADERISK (mg/day) * Q1 * (mg/kg/day)) * DERMAL ABS. FACTOR #1 * DERMAL ABS. FACTOR #2 * AVERAGE WEIGHT:

* DERMAL ABS. FACT. #1 (%) = 20

* DERMAL ABS. FACT. #2 (%) = 10

* AVERAGE WEIGHT = 70

* Q1 = 0.011

EXPOSURE PARAMETERS		TOXICOLOGICAL PARAMETERS															
		DAILY WORK HOURS:		ANNUAL EXPOSURE (day):		TOTAL WORK INTERVAL (hrs):		AVERAGE LIFETIME (yr):		AVERAGE PICKING RATE (lb/hour):		DERMAL ABS. FACT. #1 (%):		DERMAL ABS. FACT. #2 (%):			
DESCRIPTION	STUDY	EXPOSURE	EXPOSURE	FACTOR	FACTOR	FACTOR	FACTOR	FACTOR	FACTOR	FACTOR	FACTOR	RISK ANALYSIS	RISK ANALYSIS	RISK ANALYSIS			
DAY	LEVELS	(mg/day)	(mg/day)									DERMAL ABSORPTION FACTOR #1	DERMAL ABSORPTION FACTOR #2	DERMAL ABSORPTION FACTOR #3			
				15 DAYS	30 DAYS	45 DAYS	60 DAYS	80 DAYS	100 DAYS	120 DAYS	140 DAYS	160 DAYS	180 DAYS	200 DAYS			
TOTAL INSIDE	0	125.530 (ug/lb picked)	306.32 (ug/lb picked)	3.6202	7.2404	10.8606	14.4808	20.6443	31.1386	45.0396	6.0396	1.1386	-0.04	1.1386	-0.04	2.2706	-0.05
	1	121.853 (ug/lb picked)	296.52 (ug/lb picked)	3.5186	7.0337	10.5505	14.0673	2.7636	4.05	5.5206	0.05	1.0586	-0.04	1.0586	-0.05	2.2116	-0.05
	2	118.386 (ug/lb picked)	290.71 (ug/lb picked)	3.4134	6.8289	10.2403	13.8538	2.6826	3.95	5.3646	0.05	0.9486	-0.04	0.9486	-0.05	2.1466	-0.05
	3	114.783 (ug/lb picked)	281.91 (ug/lb picked)	3.3101	6.8201	9.8002	12.2402	2.6014	3.85	5.2026	0.05	1.0406	-0.04	1.0406	-0.05	2.0616	-0.05
	4	111.198 (ug/lb picked)	273.10 (ug/lb picked)	3.2087	6.4134	9.8200	12.8287	2.5206	3.65	5.0386	0.05	1.0086	-0.04	1.0086	-0.05	2.0106	-0.05
	5	107.613 (ug/lb picked)	264.30 (ug/lb picked)	3.1053	6.2090	9.3000	12.4132	2.4396	3.55	4.8776	0.05	9.7536	-0.05	9.7536	-0.05	1.9516	-0.05
	6	104.028 (ug/lb picked)	255.49 (ug/lb picked)	2.9969	5.9868	9.8987	11.8606	2.3576	3.45	4.7146	0.05	7.0716	-0.05	4.4286	-0.04	4.1446	-0.05
	7	100.443 (ug/lb picked)	246.69 (ug/lb picked)	2.8955	5.7930	8.6886	11.5861	2.2706	3.35	4.5526	0.05	6.8286	-0.05	6.1036	-0.05	1.8086	-0.05
	8	96.858 (ug/lb picked)	237.88 (ug/lb picked)	2.7931	5.5863	8.3794	11.3726	2.1866	3.25	4.3686	0.05	6.5846	-0.05	6.7786	-0.05	1.7856	-0.05
	9	93.273 (ug/lb picked)	229.08 (ug/lb picked)	2.6896	5.3795	8.0895	11.7590	2.1026	3.15	4.2276	0.05	6.3406	-0.05	6.4946	-0.05	1.7696	-0.05
	10	89.687 (ug/lb picked)	220.27 (ug/lb picked)	2.5864	5.1727	7.7591	10.3455	2.0326	3.05	4.0846	0.05	6.0986	-0.05	6.1286	-0.05	1.7196	-0.05
	11	86.102 (ug/lb picked)	211.47 (ug/lb picked)	2.4830	4.8960	7.4480	9.8316	1.9516	2.95	3.9026	0.05	5.8486	-0.05	5.7006	-0.05	1.6516	-0.05
	12	82.517 (ug/lb picked)	202.66 (ug/lb picked)	2.3796	4.7592	7.1358	9.3184	1.8706	2.85	3.7286	0.05	5.6086	-0.05	5.4796	-0.05	1.5916	-0.05
	13	78.932 (ug/lb picked)	193.86 (ug/lb picked)	2.2762	4.5524	6.8286	9.1046	1.7986	2.75	3.5776	0.05	5.3686	-0.05	5.3776	-0.05	1.5316	-0.05
	14	75.347 (ug/lb picked)	185.05 (ug/lb picked)	2.1726	4.3457	6.5185	8.9815	1.6916	2.65	3.4146	0.05	5.1226	-0.05	5.1226	-0.05	1.4316	-0.05
	15	71.762 (ug/lb picked)	176.25 (ug/lb picked)	2.0684	4.1368	6.2033	8.2776	1.5926	2.55	3.2926	0.05	4.9786	-0.05	4.9786	-0.05	1.3016	-0.05
	16	68.177 (ug/lb picked)	167.44 (ug/lb picked)	1.9661	3.9321	5.8862	7.8642	1.4946	2.45	3.0906	0.05	4.7196	-0.05	4.7196	-0.05	1.2326	-0.05
	17	64.592 (ug/lb picked)	158.64 (ug/lb picked)	1.8627	3.7253	5.5860	7.4507	1.4046	2.35	2.9116	0.05	4.3916	-0.05	4.3916	-0.05	1.1716	-0.05
	18	61.007 (ug/lb picked)	150.83 (ug/lb picked)	1.7593	3.5195	5.2779	7.0372	1.2826	2.25	2.7086	0.05	4.1476	-0.05	4.1476	-0.05	1.1116	-0.05
	19	57.422 (ug/lb picked)	141.03 (ug/lb picked)	1.6558	3.3116	4.9677	6.9206	1.3016	2.15	2.6026	0.05	3.9036	-0.05	3.9036	-0.05	1.0516	-0.05
	20	53.837 (ug/lb picked)	132.22 (ug/lb picked)	1.5525	3.1050	4.6576	6.2101	1.2206	2.05	2.4406	0.05	3.6046	-0.05	3.6046	-0.05	0.9796	-0.05
	21	50.252 (ug/lb picked)	123.42 (ug/lb picked)	1.4481	2.8963	4.3473	5.7985	1.1396	1.95	2.2776	0.05	3.4046	-0.05	3.4046	-0.05	0.9196	-0.05
	22	46.667 (ug/lb picked)	114.61 (ug/lb picked)	1.3458	2.6915	4.0374	5.3820	1.0576	1.85	2.1156	0.05	3.1726	-0.05	3.1726	-0.05	0.8596	-0.05
	23	43.081 (ug/lb picked)	105.81 (ug/lb picked)	1.2424	2.4847	3.7271	4.8986	0.7616	1.75	2.0286	0.05	2.9286	-0.05	2.9286	-0.05	0.8096	-0.05
	24	39.496 (ug/lb picked)	97.00 (ug/lb picked)	1.1390	2.2790	3.4169	4.6959	0.8496	1.65	1.7006	0.05	2.8086	-0.05	2.8086	-0.05	0.7596	-0.05
	25	35.911 (ug/lb picked)	88.20 (ug/lb picked)	1.0356	2.0712	3.1068	4.4526	0.7076	1.55	1.6276	0.05	2.6026	-0.05	2.6026	-0.05	0.7096	-0.05
	26	32.326 (ug/lb picked)	79.39 (ug/lb picked)	9.8322	1.8644	2.7906	3.7296	0.5296	1.45	1.4956	0.05	2.4026	-0.05	2.4026	-0.05	0.6606	-0.05
	27	29.741 (ug/lb picked)	70.59 (ug/lb picked)	8.6286	1.6577	2.4805	3.3183	0.3126	1.35	1.3026	0.05	2.2026	-0.05	2.2026	-0.05	0.6206	-0.05
	28	26.156 (ug/lb picked)	61.78 (ug/lb picked)	6.7254	1.4508	2.1793	2.9016	0.5096	1.25	1.1406	0.05	2.0026	-0.05	2.0026	-0.05	0.5806	-0.05
	29	21.571 (ug/lb picked)	52.96 (ug/lb picked)	5.6221	1.2441	1.8092	2.4862	0.4866	1.15	1.0406	0.05	1.8086	-0.05	1.8086	-0.05	0.5406	-0.05
	30	17.986 (ug/lb picked)	44.17 (ug/lb picked)	4.5187	1.0273	1.5203	2.0747	0.4076	1.05	1.0276	0.05	1.6276	-0.05	1.6276	-0.05	0.4846	-0.05
	31	14.401 (ug/lb picked)	35.37	4.1513	0.8306	1.2459	1.8012	3.2836	0.36	8.5286	-0.05	2.8086	-0.05	2.8086	-0.05	0.4206	-0.05
	32	10.816 (ug/lb picked)	26.56	3.1119	0.8226	0.9357	1.2470	2.4516	0.36	4.9016	-0.05	7.3826	-0.05	4.9016	-0.05	0.3816	-0.05
	33	7.231 (ug/lb picked)	17.78	2.3026	0.4170	0.8256	0.8341	1.6386	0.36	4.9186	-0.05	3.2776	-0.05	6.9536	-0.05	1.3116	-0.05
	34	3.646 (ug/lb picked)	8.05	1.0151	0.2103	0.3164	0.4206	0.2006	0.37	1.0526	-0.05	2.4766	-0.05	1.9526	-0.05	0.9006	-0.05
	35	0.961 (ug/lb picked)	0.15	0.0017	0.0025	0.0070	0.1746	0.1746	0.15	0.1516	-0.05	2.7476	-0.05	5.4696	-0.05	0.8426	-0.05

NOTES:

• (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

• DAILY HOURS = EXPOSURE (mg/hour) * DURATION (hours picked) * DAILY HOURS

• TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (207 +/- 52 lb/hour).

• LADE (mg/day) = EXPOSURE (mg/day)/DURATION (hours) * (WORK INTERVAL (hrs)/AVG. LIFETIME (yr))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #1/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #2/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #3/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #4/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #5/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #6/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #7/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #8/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #9/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #10/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #11/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #12/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #13/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #14/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #15/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #16/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #17/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #18/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #19/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #20/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #21/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #22/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #23/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #24/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #25/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #26/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #27/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #28/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #29/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #30/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #31/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #32/100) / (BODY WEIGHT(kg))

• RISK = [LADE (mg/day) * Q1 *(mg/kg/day-1)] * (DERMAL ABS. FACTOR #33/100) / (BODY WEIGHT(kg))

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EXPOSURE PARAMETERS										TOXICOLOGICAL PARAMETERS									
DAILY WORK HOURS:					ANNUAL EXPOSURE (day):					CHLOROTHALONOL QT [®] (mg/m ³ /day):					AVERAGE WEIGHT:				
					TOTAL WORK INTERVAL (yr):					15/30/45/60					70				
					AVERAGE LIFETIME (yr):					30					5				
					AVERAGE PICKING RATE (bunches):					70					1				
					307														
RISK ANALYSIS										DERMAL ABSORPTION FACTOR #2									
STUDY					EXPOSURE					DERMAL ABSORPTION FACTOR #1					DERMAL ABSORPTION FACTOR #2				
DESCRIPTION					EXPOSURE					EXPOSURE					EXPOSURE				
DAY					FACTOR					FACTOR					FACTOR				
LADe CALCULATIONS										LADe CALCULATIONS									
					(mg/day)					(mg/day)					(mg/day)				
					15 DAYS					30 DAYS					45 DAYS				
					60 DAYS					15 DAYS					30 DAYS				
					80 DAYS					60 DAYS					45 DAYS				
					80 DAYS					80 DAYS					60 DAYS				
LADe CALCULATIONS										LADe CALCULATIONS									
ALL LADE RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS					100% PICKED					100% PICKED					100% PICKED				
LADE RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL										LADE RISK CALCULATIONS									
STUDY					EXPOSURE					EXPOSURE					EXPOSURE				
DAY					LEVELS					FACTOR					FACTOR				
EXPOSURES CALCULATED BASED ON WHOLE TOMATO (SPM) LEVELS										EXPOSURES CALCULATED BASED ON WHOLE INSIDE LEVELS									
0					125.536					125.536					125.536				
1					121.953					289.52					21.7213				
2					115.366					12.9752					1.263E-05				
3					114.783					20.1203					1.263E-04				
4					111.198					14.8651					1.202E-04				
5					107.613					12.9100					1.170E-04				
6					104.028					13.4546					1.067E-04				
7					100.443					12.4448					1.024E-04				
8					96.858					227.485					1.077E-05				
9					93.273					229.08					1.034E-04				
10					89.687					223.277					1.049E-05				
11					86.102					211.477					1.077E-05				
12					82.517					202.880					1.098E-05				
13					78.932					193.86					1.024E-05				
14					75.347					185.076					9.777E-06				
15					71.762					178.255					9.349E-06				
16					68.177					167.444					8.934E-06				
17					64.592					156.840					8.538E-06				
18					61.007					149.83					8.132E-06				
19					57.422					143.030					7.732E-06				
20					53.837					132.228					7.319E-06				
21					50.252					123.429					6.932E-06				
22					48.867					114.81					6.538E-06				
23					45.051					105.81					6.132E-06				
24					38.496					97.005					5.732E-06				
25					35.811					86.220					5.332E-06				
26					32.326					79.38					4.932E-06				
27					28.741					70.59					4.532E-06				
28					25.158					61.76					4.132E-06				
29					21.571					52.86					3.732E-06				
30					17.994					44.17					3.332E-06				
31					14.401					55.923					2.932E-06				
32					10.616					49.679					2.532E-06				
33					7.23					17.74					2.132E-06				
34					6.95					16.957					1.732E-06				

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NOTES.—
THE GREAT MARVELS OF NATURE.

* (Up to one) LEVELS PRESENT EXCEPT LEVELS WHICH HAVE BEEN PRESENT

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OF EXPOSURE

¹ TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL RELOCATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (30/ 1752 LBS/HOUR).

LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) / ANNUAL EXPOSURE (days)

$$\text{RISK} = \frac{\text{LADE}(\text{mg/day}) \times Q1^{\text{f}}(\text{mg/kg/day-1})}{\text{DERMAL ABS. FACTOR}/100} \times (\text{BODY WEIGHT}(\text{kg}))$$

REVIEW OF CHLOROTHALONIL FOAM DISLOCATEABLE RESIDUE/EXPOSURE STUDY
LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS
EXPOSURES CALCULATED BASED ON FDR (ug/cm²) LEVELS

DESCRIPTION	STUDY	EXPOSURE DAY	LEVELS	EXPOSURE FACTOR (mg/day)	LADE CALCULATIONS (mg/day)				DERMAL ABSORPTION FACTOR #1				RISK ANALYSIS			
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS
TOTAL INSIDE	0	124.479	(ug/lb picked)	305.72	1.7945	3.5897	5.3845	7.1793	2.632E-04	5.841E-04	9.481E-04	1.128E-03	1.410E-04	2.830E-04	4.721E-04	5.841E-04
	1	121.300	(ug/lb picked)	297.91	1.7480	3.4980	5.2470	6.9490	2.748E-04	5.487E-04	8.248E-04	9.628E-04	1.098E-04	1.374E-04	2.748E-04	4.123E-04
	2	118.121	(ug/lb picked)	290.11	1.7032	3.4083	5.1085	6.6127	2.670E-04	5.353E-04	8.028E-04	9.371E-04	1.071E-04	1.303E-04	2.670E-04	4.015E-04
	3	114.943	(ug/lb picked)	282.30	1.6873	3.3147	4.9720	5.8236	2.604E-04	5.042E-04	7.913E-04	9.042E-04	1.042E-04	1.290E-04	2.604E-04	3.903E-04
	4	111.764	(ug/lb picked)	274.49	1.6115	3.2220	4.0345	6.4480	2.532E-04	5.035E-04	7.597E-04	8.103E-04	1.013E-04	1.203E-04	2.532E-04	3.779E-04
	5	108.585	(ug/lb picked)	266.68	1.5637	3.1313	4.9870	6.2827	2.480E-04	4.921E-04	7.361E-04	8.041E-04	1.002E-04	1.190E-04	2.480E-04	3.680E-04
	6	105.406	(ug/lb picked)	258.84	1.5180	3.0387	4.5585	6.0780	2.398E-04	4.777E-04	7.168E-04	7.853E-04	1.004E-04	1.184E-04	2.398E-04	4.177E-04
	7	102.227	(ug/lb picked)	251.07	1.4740	2.8480	4.4220	5.8980	2.319E-04	4.633E-04	6.948E-04	7.628E-04	1.006E-04	1.180E-04	2.319E-04	4.033E-04
	8	99.045	(ug/lb picked)	243.20	1.4282	2.8563	4.2845	5.7120	2.244E-04	4.488E-04	6.735E-04	7.497E-04	1.022E-04	1.244E-04	2.244E-04	4.488E-04
	9	95.870	(ug/lb picked)	235.48	1.3823	2.7648	4.1470	5.5230	2.172E-04	4.344E-04	6.517E-04	7.308E-04	1.038E-04	1.217E-04	2.172E-04	3.228E-04
	10	92.691	(ug/lb picked)	227.85	1.3365	2.6793	4.0095	5.3460	2.102E-04	4.200E-04	6.301E-04	7.140E-04	1.056E-04	1.200E-04	2.102E-04	3.150E-04
	11	89.512	(ug/lb picked)	219.84	1.2907	2.5819	3.8720	5.1820	2.036E-04	4.056E-04	6.085E-04	6.913E-04	1.011E-04	1.202E-04	2.036E-04	3.042E-04
	12	86.333	(ug/lb picked)	212.03	1.2448	2.4988	3.7345	4.9790	1.958E-04	3.912E-04	5.895E-04	6.782E-04	1.017E-04	1.202E-04	2.017E-04	3.012E-04
	13	83.154	(ug/lb picked)	204.23	1.1980	2.3860	3.5970	4.7950	1.884E-04	3.768E-04	5.855E-04	6.735E-04	1.021E-04	1.204E-04	2.004E-04	3.004E-04
	14	79.976	(ug/lb picked)	186.42	1.1532	2.3093	3.4565	4.6120	1.812E-04	3.624E-04	5.824E-04	6.724E-04	1.030E-04	1.212E-04	2.012E-04	3.044E-04
	15	76.797	(ug/lb picked)	188.61	1.1073	2.2149	3.3220	4.4280	1.740E-04	3.480E-04	5.720E-04	6.630E-04	1.039E-04	1.201E-04	2.002E-04	3.004E-04
	16	73.618	(ug/lb picked)	180.61	1.0615	2.1230	3.1844	4.2450	1.685E-04	3.308E-04	5.603E-04	6.572E-04	1.048E-04	1.190E-04	2.002E-04	3.006E-04
	17	70.439	(ug/lb picked)	173.00	1.0156	2.0313	3.0495	4.0520	1.630E-04	3.182E-04	5.478E-04	6.436E-04	1.058E-04	1.180E-04	2.002E-04	3.012E-04
	18	67.260	(ug/lb picked)	165.19	9.8886	1.9386	2.9084	3.8780	1.582E-04	3.048E-04	5.372E-04	6.085E-04	1.068E-04	1.174E-04	2.000E-04	3.004E-04
	19	64.082	(ug/lb picked)	157.38	9.5200	1.8480	2.7719	3.6850	1.532E-04	2.904E-04	5.358E-04	5.803E-04	1.084E-04	1.167E-04	2.000E-04	3.004E-04
	20	60.903	(ug/lb picked)	148.58	9.0761	1.7583	2.6344	3.4320	1.480E-04	2.760E-04	5.232E-04	5.632E-04	1.095E-04	1.160E-04	2.000E-04	3.004E-04
	21	57.724	(ug/lb picked)	141.77	6.8323	1.6848	2.4960	3.3292	1.308E-04	2.618E-04	5.028E-04	5.428E-04	1.054E-04	1.150E-04	2.002E-04	3.006E-04
	22	54.545	(ug/lb picked)	133.86	6.7885	1.5730	2.3594	3.1459	1.238E-04	2.472E-04	4.789E-04	5.034E-04	1.079E-04	1.170E-04	2.002E-04	3.012E-04
	23	51.366	(ug/lb picked)	126.18	6.7406	1.4813	2.2219	2.9640	1.164E-04	2.328E-04	4.482E-04	4.855E-04	1.019E-04	1.164E-04	2.000E-04	3.004E-04
	24	48.188	(ug/lb picked)	118.35	6.8948	1.3860	2.0844	2.7792	1.094E-04	2.184E-04	3.278E-04	3.607E-04	9.549E-05	1.184E-04	1.082E-04	2.178E-04
	25	45.009	(ug/lb picked)	110.54	6.8490	1.2979	1.9469	2.5950	1.023E-04	2.040E-04	3.059E-04	3.470E-04	9.020E-05	1.153E-04	1.040E-04	2.004E-04
	26	41.630	(ug/lb picked)	102.73	6.8031	1.2063	1.8084	2.4120	9.470E-05	1.868E-04	2.846E-04	3.271E-04	8.530E-05	1.130E-04	1.030E-04	2.002E-04
	27	38.451	(ug/lb picked)	94.83	6.5573	1.1148	1.6710	2.2282	8.794E-05	1.792E-04	2.802E-04	3.197E-04	8.037E-05	1.114E-04	1.010E-04	2.002E-04
	28	35.472	(ug/lb picked)	87.12	6.5115	1.0229	1.5344	2.0459	8.037E-05	1.607E-04	2.411E-04	2.807E-04	7.541E-05	1.097E-04	9.907E-05	2.000E-04
	29	32.294	(ug/lb picked)	79.31	6.4655	9.9313	1.3980	1.8625	7.317E-05	1.463E-04	2.189E-04	2.527E-04	6.956E-05	7.317E-05	1.098E-04	1.463E-04
	30	29.115	(ug/lb picked)	71.51	6.4190	9.5960	1.2584	1.6792	5.950E-05	1.319E-04	1.970E-04	2.350E-04	5.095E-05	6.597E-05	9.005E-05	1.319E-04
	31	25.936	(ug/lb picked)	63.70	6.3740	7.4770	1.1210	1.4050	5.877E-05	1.175E-04	1.755E-04	2.251E-04	5.037E-05	6.577E-05	8.615E-05	1.175E-04
	32	22.757	(ug/lb picked)	55.89	6.3281	6.8644	1.3120	1.156E-05	1.031E-04	1.547E-04	2.063E-04	4.937E-05	5.156E-05	7.735E-05	1.031E-04	1.792E-04
	33	19.578	(ug/lb picked)	48.08	6.2822	6.5846	0.9446	1.1282	4.430E-05	8.672E-05	1.331E-04	2.214E-04	4.393E-05	5.054E-05	6.872E-05	8.672E-05
	34	16.400	(ug/lb picked)	40.28	6.2305	4.7429	0.7084	0.8450	3.716E-05	7.432E-05	1.118E-04	1.488E-04	1.656E-05	3.716E-05	5.574E-05	7.432E-05
	35	13.221	(ug/lb picked)	32.47	6.1900	3.9113	0.5710	0.7925	2.980E-05	5.901E-05	6.807E-05	1.108E-04	1.493E-05	2.980E-05	4.493E-05	9.901E-05

NOTES

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/lb tomatoe picked) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (mg/day)]³⁶⁵ (day/a) * [WORK INTERVAL (min)/AVG. LIFETIME (yr)]

* RISK = [LADE (mg/day) * Q1 * (mg/kg/day)] * (DERMAL ABS. FACTOR #1)/(BODY WEIGHT(kg))

** LADE (mg/day) = EXPOSURE (mg/day) * DAILY HOURS OR EXPOSURE (mg/lb tomatoe picked) * DAILY HOURS

*** DERMAL ABS. FACTOR #1 = (DERMAL ABS. FACT. #2) * (AVERAGE WEIGHT (lb))^{0.75}

**** DERMAL ABS. FACT. #2 = (DERMAL ABS. FACT. #3) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #3 = (DERMAL ABS. FACT. #4) * (AVERAGE WORKING TIME (hr/day))^{0.75}

***** DERMAL ABS. FACT. #4 = (DERMAL ABS. FACT. #5) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #5 = (DERMAL ABS. FACT. #6) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #6 = (DERMAL ABS. FACT. #7) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #7 = (DERMAL ABS. FACT. #8) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #8 = (DERMAL ABS. FACT. #9) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #9 = (DERMAL ABS. FACT. #10) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #10 = (DERMAL ABS. FACT. #11) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #11 = (DERMAL ABS. FACT. #12) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #12 = (DERMAL ABS. FACT. #13) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #13 = (DERMAL ABS. FACT. #14) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #14 = (DERMAL ABS. FACT. #15) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #15 = (DERMAL ABS. FACT. #16) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #16 = (DERMAL ABS. FACT. #17) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #17 = (DERMAL ABS. FACT. #18) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #18 = (DERMAL ABS. FACT. #19) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #19 = (DERMAL ABS. FACT. #20) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #20 = (DERMAL ABS. FACT. #21) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #21 = (DERMAL ABS. FACT. #22) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #22 = (DERMAL ABS. FACT. #23) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #23 = (DERMAL ABS. FACT. #24) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #24 = (DERMAL ABS. FACT. #25) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #25 = (DERMAL ABS. FACT. #26) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #26 = (DERMAL ABS. FACT. #27) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #27 = (DERMAL ABS. FACT. #28) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #28 = (DERMAL ABS. FACT. #29) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #29 = (DERMAL ABS. FACT. #30) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #30 = (DERMAL ABS. FACT. #31) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #31 = (DERMAL ABS. FACT. #32) * (AVERAGE PICKING RATE (mg/hour))^{0.75}

***** DERMAL ABS. FACT. #32 = (DERMAL

REVIEW OF CHLORTROTHALONIL FOR HARVESTABLE RESIDUE/EXPOSURE STUDY

LADE CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FOR (ug/cm²) LEVELS

STUDY EXPOSURE LEVELS

DAY FACTOR (mg/day)

LADE CALCULATIONS (mg/day)

(mg/day)

15 DAYS

30 DAYS

45 DAYS

60 DAYS

EXPOSURE PARAMETERS		TOXICOLOGICAL PARAMETERS	
DAILY WORK HOURS:	6	CHLORTROTHALONIL Q1* (mg/kg/day):	0.011
ANNUAL EXPOSURE (kg/year):	15,301,45,80	AVERAGE WEIGHT:	70
TOTAL WORK INTERVAL (yr):	20	DERMAL ABS. FACT. #1 (%):	100
AVERAGE LIFETIME (yr):	70	DERMAL ABS. FACT. #2 (%):	50
AVG. PICKING RATE (lb/hour):	307	RISK ANALYSIS	
		DERMAL ABSORPTION FACTOR #1	
		DERMAL ABSORPTION FACTOR #2	

NOTES:
* (kg/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OF EXPOSURE (mg/hour) * PICKING RATE (lb/hour)
* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPUCLES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * ANNUAL EXPOSURE (kg/day) * WORK INTERVAL (yr)/AVG. LIFETIME (yr)
* RISK = [(LADE(mg/day) * Q1*(mg/kg/day)) * (DERMAL ABS. FACTOR(100))] / (BODY WEIGHT(kg))

REVIEW OF CHLOROTHALONYL FOAM DISCHARGE RESIDUE/EXPOSURE STUDY
LADE/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL LADE/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FDR (ug/cm²) LEVELS

DESCRIPTION		STUDY	EXPOSURE DAY	EXPOSURE FACTOR (mg/day)	EXPOSURE	LADE CALCULATIONS (mg/day)	DERMAL ABSORPTION FACTOR #1	DERMAL ABSORPTION FACTOR #2	RISK ANALYSIS								
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	
TOTAL INSIDE	0	124.478	(ug/lb picked)	305.72	5.3845	10.7600	16.1535	21.5380	8.481E-04	1.087E-03	2.558E-03	3.285E-03	4.211E-04	6.481E-04	8.211E-04	1.028E-03	1.028E-03
1	121.300	(ug/lb picked)	297.81	5.2470	10.4940	15.7410	20.9800	24.245E-04	1.848E-03	2.474E-03	3.208E-03	4.123E-04	6.248E-04	8.248E-04	1.027E-03	1.027E-03	
2	118.121	(ug/lb picked)	290.11	5.1095	10.2190	15.3265	20.4320	8.028E-04	1.808E-03	2.408E-03	3.212E-03	4.015E-04	6.028E-04	8.028E-04	1.020E-03	1.020E-03	
3	114.943	(ug/lb picked)	282.30	4.9720	9.9440	14.9160	19.8600	7.815E-04	1.807E-03	2.344E-03	3.128E-03	3.807E-04	7.813E-04	1.017E-03	1.017E-03	1.017E-03	
4	111.784	(ug/lb picked)	274.49	4.8345	9.6890	14.5025	19.3320	7.597E-04	1.518E-03	2.270E-03	3.038E-03	3.789E-04	7.597E-04	1.148E-03	1.148E-03	1.148E-03	
5	108.585	(ug/lb picked)	266.68	4.6870	9.3940	14.0810	18.7800	7.381E-04	1.470E-03	2.214E-03	2.949E-03	3.680E-04	7.381E-04	1.107E-03	1.107E-03	1.107E-03	
6	105.406	(ug/lb picked)	259.88	4.5595	9.1190	13.8765	18.2370	7.185E-04	1.432E-03	2.149E-03	2.868E-03	3.582E-04	7.185E-04	1.075E-03	1.075E-03	1.075E-03	
7	102.227	(ug/lb picked)	251.07	4.4220	8.8440	13.2650	17.9070	6.948E-04	1.390E-03	2.089E-03	2.780E-03	3.474E-04	6.948E-04	1.042E-03	1.042E-03	1.042E-03	
8	99.046	(ug/lb picked)	243.26	4.2845	8.5690	12.8534	17.1370	6.732E-04	1.347E-03	2.020E-03	2.698E-03	3.396E-04	6.732E-04	1.010E-03	1.010E-03	1.010E-03	
9	95.870	(ug/lb picked)	235.46	4.1470	8.2930	12.4400	16.9870	6.517E-04	1.303E-03	1.963E-03	2.607E-03	3.295E-04	6.517E-04	9.779E-04	1.051E-03	1.051E-03	
10	92.691	(ug/lb picked)	227.65	4.0095	8.0160	12.0284	16.3030	6.301E-04	1.260E-03	1.880E-03	2.509E-03	3.156E-04	6.301E-04	9.451E-04	1.031E-03	1.031E-03	
11	89.512	(ug/lb picked)	219.84	3.8670	7.7430	11.8150	15.4870	6.085E-04	1.217E-03	1.825E-03	2.438E-03	3.046E-04	6.085E-04	9.127E-04	1.012E-03	1.012E-03	
12	86.333	(ug/lb picked)	212.03	3.7345	7.4880	11.2034	14.8370	5.868E-04	1.174E-03	1.781E-03	2.347E-03	2.934E-04	5.868E-04	8.803E-04	1.074E-03	1.074E-03	
13	83.154	(ug/lb picked)	204.22	3.5970	7.1630	10.7900	14.3670	5.652E-04	1.130E-03	1.686E-03	2.261E-03	2.828E-04	5.652E-04	8.479E-04	1.030E-03	1.030E-03	
14	79.976	(ug/lb picked)	196.42	3.4595	6.9160	10.3764	13.8370	5.436E-04	1.087E-03	1.631E-03	2.175E-03	2.718E-04	5.436E-04	8.154E-04	1.020E-03	1.020E-03	
15	76.797	(ug/lb picked)	188.61	3.3220	6.6430	10.2670	13.2670	5.220E-04	1.044E-03	1.586E-03	2.098E-03	2.610E-04	5.220E-04	7.830E-04	1.014E-03	1.014E-03	
16	73.618	(ug/lb picked)	180.81	3.1844	6.3860	9.5533	12.7370	5.004E-04	1.001E-03	1.501E-03	2.002E-03	2.502E-04	5.004E-04	7.506E-04	1.001E-03	1.001E-03	
17	70.439	(ug/lb picked)	173.00	3.0469	6.0360	9.1406	12.1870	4.798E-04	9.570E-04	1.439E-03	1.918E-03	2.394E-04	4.768E-04	7.182E-04	9.570E-04	9.570E-04	
18	67.260	(ug/lb picked)	165.19	2.9084	5.6160	8.7283	11.6370	4.572E-04	9.144E-04	1.372E-03	1.828E-03	2.288E-04	4.572E-04	6.958E-04	9.144E-04	9.144E-04	
19	64.082	(ug/lb picked)	157.36	2.7719	5.2430	8.3150	11.0760	4.356E-04	7.712E-04	1.307E-03	1.742E-03	2.178E-04	4.356E-04	6.535E-04	7.712E-04	7.712E-04	
20	60.903	(ug/lb picked)	148.56	2.6344	5.8250	7.9303	10.5327	4.142E-04	6.280E-04	1.242E-03	1.656E-03	2.070E-04	4.142E-04	6.210E-04	8.120E-04	8.120E-04	
21	57.724	(ug/lb picked)	141.77	2.4960	4.9520	7.4900	8.9877	3.924E-04	7.848E-04	1.177E-03	1.570E-03	1.982E-04	4.024E-04	5.884E-04	7.848E-04	7.848E-04	
22	54.545	(ug/lb picked)	133.98	2.3594	4.7160	7.0783	8.4377	3.708E-04	7.415E-04	1.112E-03	1.448E-03	1.864E-04	3.708E-04	5.592E-04	7.415E-04	7.415E-04	
23	51.366	(ug/lb picked)	126.18	2.2219	4.4430	6.6656	8.8877	3.492E-04	6.883E-04	1.047E-03	1.367E-03	1.492E-04	3.492E-04	5.237E-04	6.883E-04	6.883E-04	
24	48.188	(ug/lb picked)	118.35	2.0844	4.1880	6.3533	8.3377	3.279E-04	6.551E-04	9.712E-04	1.310E-03	1.693E-04	3.278E-04	4.813E-04	6.351E-04	6.351E-04	
25	45.000	(ug/lb picked)	110.54	1.9400	3.9250	5.8406	7.7577	3.059E-04	6.119E-04	9.172E-04	1.224E-03	1.593E-04	3.059E-04	4.559E-04	6.119E-04	6.119E-04	
26	41.830	(ug/lb picked)	102.73	1.8084	3.6168	5.4282	7.2377	2.848E-04	5.687E-04	8.137E-04	1.137E-03	1.422E-04	2.848E-04	4.288E-04	5.687E-04	5.687E-04	
27	38.651	(ug/lb picked)	94.93	1.6719	3.3458	5.0157	6.8676	2.627E-04	5.255E-04	7.815E-04	1.051E-03	1.310E-04	2.627E-04	3.841E-04	5.255E-04	5.255E-04	
28	35.472	(ug/lb picked)	87.12	1.5344	3.0688	4.6032	6.3570	2.411E-04	4.922E-04	7.238E-04	1.020E-03	1.210E-04	2.411E-04	3.617E-04	4.922E-04	4.922E-04	
29	32.294	(ug/lb picked)	79.31	1.3930	2.7930	4.1807	5.8470	2.198E-04	4.302E-04	6.585E-04	7.781E-04	1.098E-04	2.198E-04	3.217E-04	4.302E-04	4.302E-04	
30	29.115	(ug/lb picked)	71.51	1.2594	2.5186	3.7782	5.0370	1.978E-04	3.658E-04	5.937E-04	7.918E-04	9.685E-05	1.978E-04	2.898E-04	4.558E-04	4.558E-04	
31	25.936	(ug/lb picked)	63.70	1.1219	2.2430	3.2657	4.4670	1.765E-04	3.528E-04	5.828E-04	7.052E-04	8.619E-05	1.765E-04	2.644E-04	3.528E-04	3.528E-04	
32	22.757	(ug/lb picked)	55.89	0.9844	1.8680	3.8632	3.8370	1.547E-04	3.048E-04	5.641E-04	6.168E-04	7.738E-05	1.547E-04	2.320E-04	3.048E-04	3.048E-04	
33	19.576	(ug/lb picked)	48.06	0.8460	1.6680	2.5407	5.3870	1.319E-04	2.862E-04	5.962E-04	6.862E-04	8.654E-05	1.331E-04	1.989E-04	2.862E-04	2.862E-04	
34	16.400	(ug/lb picked)	40.20	0.7084	1.4180	2.1262	2.8370	1.119E-04	2.230E-04	3.344E-04	4.459E-04	5.574E-05	1.115E-04	1.672E-04	2.230E-04	2.230E-04	
35	13.221	(ug/lb picked)	32.47	0.5719	1.1430	1.7150	2.2075	8.907E-05	1.797E-04	2.898E-04	4.486E-04	5.865E-05	8.807E-05	1.348E-04	1.797E-04	1.797E-04	

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * (ANNUAL EXPOSURE (mg/day)/365 days) * (WORK INTERVAL (min)/AVG. LIFETIME (min))

* RISK = [(LADE)(mg/day) * Q1*(mg/kg/day)] * (DERMAL ABS. FACT. #1)/(BODY WEIGHT(kg))

** AVERAGE WEIGHT: (Q1*(mg/kg/day)-1) / (DERMAL ABS. FACT. #1 * DERMAL ABS. FACT. #2 (%))

*** DERMAL ABSORPTION FACTOR #1 = 1.001E-03 + (0.0001E-03 * (100 - AVERAGE WEIGHT))

**** DERMAL ABSORPTION FACTOR #2 = 1.001E-03 + (0.0001E-03 * (100 - AVERAGE WEIGHT))

***** RISK ANALYSIS = (RISK * 100) / (100 - AVERAGE WEIGHT)

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REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY

LAE/TISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LAE/TISK VALUES ARE BASED ON INSIDE (cm²) LEVELSEXPOSURES CALCULATED BASED ON FOR (kg/cm²) LEVELS

DESCRIPTION	STUDY	EXPOSURE	EXPOSURE	EXPOSURE	FACTOR	(mg/day)	LEVELS	LAE/CALCULATIONS	(mg/day)
	DAY								
TOTAL INSIDE	0	124.479	(ug/lb picked)	305.72	1.7948	3.5887	7.1793	5.641E-05	1.128E-04
	1	121.300	(ug/lb picked)	287.91	3.4860	5.2470	6.9600	5.487E-05	1.099E-04
	2	118.121	(ug/lb picked)	260.11	1.7032	3.4063	5.1085	6.812E-05	1.071E-04
	3	114.943	(ug/lb picked)	262.30	3.3147	4.8720	6.8263	5.353E-05	1.013E-04
	4	111.764	(ug/lb picked)	274.49	1.6115	3.2220	4.3345	6.446E-05	9.957E-05
	5	108.585	(ug/lb picked)	266.66	1.5857	3.1513	4.8970	6.282E-05	9.841E-05
	6	105.406	(ug/lb picked)	259.86	1.5198	3.0587	4.5585	6.0793	9.553E-05
	7	102.227	(ug/lb picked)	251.07	1.4740	2.8460	4.1220	5.8660	9.285E-05
	8	99.048	(ug/lb picked)	243.26	1.4262	2.6843	4.7845	5.7126	8.948E-05
	9	95.870	(ug/lb picked)	235.45	1.3923	2.7946	4.1470	5.5293	8.544E-05
	10	92.691	(ug/lb picked)	227.65	1.3385	2.6730	4.0085	5.3460	8.100E-05
	11	89.512	(ug/lb picked)	218.84	1.2807	2.5613	3.8720	5.1620	7.650E-05
	12	86.333	(ug/lb picked)	212.10	1.2448	2.4866	3.7345	4.9793	7.119E-05
	13	83.154	(ug/lb picked)	204.23	1.1980	2.3260	3.5970	4.7890	6.677E-05
	14	79.975	(ug/lb picked)	196.42	1.1532	2.3053	3.4585	4.6128	6.248E-05
	15	76.797	(ug/lb picked)	188.61	1.1073	2.2146	3.3220	4.4290	5.820E-05
	16	73.618	(ug/lb picked)	180.81	1.0615	2.1250	3.1844	4.2456	5.400E-05
	17	70.439	(ug/lb picked)	173.00	1.0156	2.0313	3.0400	4.0528	4.989E-05
	18	67.260	(ug/lb picked)	165.18	0.9685	1.9296	2.8094	3.8703	4.568E-05
	19	64.082	(ug/lb picked)	157.36	0.9240	1.8440	2.7710	3.6959	4.148E-05
	20	60.903	(ug/lb picked)	149.56	0.8781	1.7563	2.6344	3.5120	3.720E-05
	21	57.724	(ug/lb picked)	141.77	0.8323	1.6646	2.4990	3.3220	3.292E-05
	22	54.545	(ug/lb picked)	133.96	0.7865	1.5780	2.3584	3.1450	2.870E-05
	23	51.366	(ug/lb picked)	126.18	0.7406	1.4813	2.2210	2.9625	2.452E-05
	24	48.188	(ug/lb picked)	118.35	0.6948	1.3906	2.0644	2.7792	2.032E-05
	25	45.009	(ug/lb picked)	110.54	0.6480	1.2970	1.9460	2.5859	1.604E-05
	26	41.830	(ug/lb picked)	102.73	0.6031	1.2063	2.4128	1.8690	1.192E-05
	27	38.651	(ug/lb picked)	94.93	0.5597	1.1146	1.8710	2.2922	1.702E-05
	28	35.472	(ug/lb picked)	87.12	0.5115	1.0229	1.5344	2.0707	2.098E-05
	29	32.294	(ug/lb picked)	79.31	0.4698	9.3913	1.3865	1.8025	2.492E-05
	30	29.115	(ug/lb picked)	71.51	0.4198	8.3836	1.2594	1.5792	2.858E-05
	31	25.936	(ug/lb picked)	63.70	0.3740	7.4749	1.1210	1.4240	3.221E-05
	32	22.757	(ug/lb picked)	55.90	0.3281	6.9644	1.0312	1.3215	3.594E-05
	33	19.578	(ug/lb picked)	48.06	0.2823	5.9046	1.0466	1.2122	3.962E-05
	34	16.400	(ug/lb picked)	40.26	0.2385	4.7229	0.7094	0.9548	4.332E-05
	35	13.221	(ug/lb picked)	32.47	0.1906	0.3613	0.7825	0.6015	4.681E-05

EXPOSURE PARAMETERS		TOXICOLOGICAL PARAMETERS	
DAILY WORK HOURS:	4	CHLOROTHALONIL CUT (mg/day)	1.031
ANNUAL EXPOSURE (day/year):	15/50/45/50	AVERAGE WEIGHT:	0.031
TOTAL WORK INTERVAL (year):	10	DERMAL ABS. FACT. #1 (%):	70
AVERAGE LIFETIME (yr):	70	DERMAL ABS. FACT. #2 (%):	20
AVERAGE PICKING RATE (lb/hour):	307	DERMAL ABS. FACT. #3 (%):	10

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/hour) * PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 32 lb/hour).

* LAE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * ANNUAL EXPOSURE (day/year) * [WORK INTERVAL (year)]^{1/2} * AVERAGE (lb/day)

* RISK = [LADE(mg/day) * O1^(mg/kg/day)] * (DERMAL ABS. FACTOR/100)]/[BODY WEIGHT(kg)]

EXPOSURE PARAMETERS		TOXICOLOGICAL PARAMETERS	
DAILY WORK HOURS:	4	CHLOROTHALONIL CUT (mg/day)	1.031
ANNUAL EXPOSURE (day/year):	15/50/45/50	AVERAGE WEIGHT:	0.031
TOTAL WORK INTERVAL (year):	10	DERMAL ABS. FACT. #1 (%):	70
AVERAGE LIFETIME (yr):	70	DERMAL ABS. FACT. #2 (%):	20
AVERAGE PICKING RATE (lb/hour):	307	DERMAL ABS. FACT. #3 (%):	10

EXPOSURE PARAMETERS		TOXICOLOGICAL PARAMETERS	
DAILY WORK HOURS:	4	CHLOROTHALONIL CUT (mg/day)	1.031
ANNUAL EXPOSURE (day/year):	15/50/45/50	AVERAGE WEIGHT:	0.031
TOTAL WORK INTERVAL (year):	10	DERMAL ABS. FACT. #1 (%):	70
AVERAGE LIFETIME (yr):	70	DERMAL ABS. FACT. #2 (%):	20
AVERAGE PICKING RATE (lb/hour):	307	DERMAL ABS. FACT. #3 (%):	10

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY

LADERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADERISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FOR Up/cm² LEVELS

DESCRIPTION	STUDY	EXPOSURE	EXPOSURE FACTOR	LADE CALCULATIONS (mg/day)	DERMAL ABSORPTION FACTOR #1				DERMAL ABSORPTION FACTOR #2				
					15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS	
TOTAL INSIDE	0	124.479 (ug/lb picked)	305.72	3.5897 7.1783	10.7890	14.2567	11.128E-04	2.259E-04	3.385E-04	4.515E-04	5.641E-05	1.128E-04	2.892E-04
	1	121.300 (ug/lb picked)	287.91	3.4860 6.9980	10.4840	13.9820	1.098E-04	2.198E-04	4.387E-04	5.487E-04	6.588E-05	1.048E-04	2.198E-04
	2	118.121 (ug/lb picked)	290.11	3.4083 6.5127	10.2180	13.6253	1.071E-04	2.141E-04	4.212E-04	4.262E-04	5.353E-05	1.071E-04	2.141E-04
	3	114.943 (ug/lb picked)	282.30	3.3147 6.6263	9.8440	13.2587	1.042E-04	2.084E-04	4.197E-04	4.197E-04	5.208E-05	1.042E-04	2.084E-04
	4	111.764 (ug/lb picked)	274.49	3.2230 6.4480	9.8980	12.9260	1.015E-04	2.028E-04	4.096E-04	5.055E-04	5.103E-05	1.015E-04	2.028E-04
	5	108.585 (ug/lb picked)	266.68	3.1313 6.2627	9.3640	12.5283	9.841E-05	1.968E-04	3.837E-04	4.921E-05	5.841E-05	9.841E-05	1.478E-04
	6	105.408 (ug/lb picked)	258.88	3.0397 6.0793	9.1180	12.1586	9.553E-05	1.811E-04	3.688E-04	4.821E-04	5.653E-05	9.843E-05	1.433E-04
	7	102.227 (ug/lb picked)	251.07	2.9480 5.8900	8.8440	11.7918	9.285E-05	1.658E-04	3.508E-04	4.633E-05	5.483E-05	9.285E-05	1.380E-04
	8	99.048 (ug/lb picked)	243.26	2.8563 5.7128	8.5880	11.4283	9.077E-05	1.508E-04	3.391E-04	4.489E-05	5.377E-05	9.192E-05	1.347E-04
	9	95.870 (ug/lb picked)	235.46	2.7748 5.6283	8.2930	11.0596	8.899E-05	1.373E-04	3.207E-04	4.344E-05	5.289E-05	9.009E-05	1.303E-04
	10	92.691 (ug/lb picked)	227.65	2.6730 5.4480	8.0180	10.6919	8.618E-05	1.241E-04	3.028E-04	4.200E-05	5.140E-05	8.941E-05	1.260E-04
	11	89.512 (ug/lb picked)	219.84	2.5813 5.2128	7.7430	10.3282	8.315E-05	1.102E-04	2.843E-04	3.985E-05	5.013E-05	8.113E-05	1.217E-04
	12	86.333 (ug/lb picked)	212.03	2.4986 4.9793	7.4680	9.9856	7.925E-05	9.685E-05	2.647E-04	3.139E-04	3.912E-05	7.825E-05	1.174E-04
	13	83.154 (ug/lb picked)	204.20	2.3980 4.7850	7.1920	9.6910	7.538E-05	9.150E-05	2.281E-04	3.015E-04	3.798E-05	7.538E-05	1.130E-04
	14	79.976 (ug/lb picked)	196.42	2.3083 4.6126	6.9180	9.2292	7.148E-05	8.630E-05	1.930E-04	2.178E-04	3.698E-05	7.148E-05	1.087E-04
	15	76.797 (ug/lb picked)	188.61	2.2149 4.4220	6.6430	8.8430	6.850E-05	8.401E-05	1.630E-04	2.028E-04	3.390E-05	6.800E-05	1.044E-04
	16	73.618 (ug/lb picked)	180.81	2.1230 4.2450	6.3680	8.4610	6.072E-05	7.334E-05	1.334E-04	1.902E-04	3.098E-05	6.672E-05	1.001E-04
	17	70.439 (ug/lb picked)	173.00	2.0313 4.0620	6.0830	8.1252	5.394E-05	7.277E-05	1.191E-04	1.859E-04	3.054E-05	6.570E-05	1.277E-04
	18	67.260 (ug/lb picked)	165.19	1.9396 3.8730	5.8180	7.7936	5.069E-05	1.219E-04	1.626E-04	2.438E-04	3.048E-05	6.096E-05	9.144E-05
	19	64.082 (ug/lb picked)	157.38	1.8480 3.8050	5.5430	7.3810	5.008E-05	1.182E-04	1.742E-04	2.322E-04	2.804E-05	5.808E-05	8.712E-05
	20	60.903 (ug/lb picked)	149.58	1.7593 3.7120	5.2850	7.0232	5.020E-05	1.104E-04	1.592E-04	2.080E-04	2.784E-05	5.620E-05	8.104E-05
	21	57.724 (ug/lb picked)	141.77	1.6648 3.6262	4.9800	6.6590	5.072E-05	1.046E-04	1.570E-04	2.036E-04	2.610E-05	5.422E-05	7.848E-05
	22	54.545 (ug/lb picked)	133.98	1.5720 3.5280	4.6210	6.3252	5.394E-05	9.867E-05	1.486E-04	2.472E-04	3.494E-05	5.970E-05	9.007E-05
	23	51.368 (ug/lb picked)	128.18	1.4813 3.4320	4.4430	5.9180	5.609E-05	9.311E-05	1.380E-04	2.328E-04	3.048E-05	6.086E-05	9.144E-05
	24	48.188 (ug/lb picked)	116.35	1.3986 3.3360	4.1900	5.7792	5.808E-05	1.182E-04	1.747E-04	2.328E-04	2.804E-05	6.086E-05	8.712E-05
	25	45.009 (ug/lb picked)	110.54	1.2970 3.1818	3.9500	5.5120	5.919E-05	1.079E-04	1.622E-04	2.040E-04	2.040E-05	6.079E-05	8.119E-05
	26	41.830 (ug/lb picked)	102.73	1.2083 3.0292	3.6180	5.3120	5.971E-05	7.562E-05	1.137E-04	1.510E-04	1.960E-05	5.761E-05	7.887E-05
	27	38.651 (ug/lb picked)	94.93	1.1148 2.8292	3.3430	5.1480	4.458E-05	7.008E-05	1.051E-04	1.401E-04	1.752E-05	5.503E-05	7.025E-05
	28	35.472 (ug/lb picked)	87.12	1.0229 2.6459	3.0680	4.9410	4.430E-05	6.494E-05	9.877E-04	1.360E-04	1.607E-05	5.405E-05	6.453E-05
	29	32.294 (ug/lb picked)	79.31	9.9313 1.8623	3.0820	4.7930	3.7251	5.927E-05	5.954E-05	8.791E-04	1.171E-04	1.297E-05	5.311E-05
	30	29.115 (ug/lb picked)	71.51	8.8390 1.7670	3.0792	4.5180	3.3584	5.838E-05	5.277E-05	7.916E-04	1.058E-04	1.319E-05	5.051E-05
	31	25.938 (ug/lb picked)	63.70	7.4710 1.6120	3.0450	4.2430	2.9017	2.551E-05	4.701E-05	7.058E-04	9.404E-05	1.178E-05	4.701E-05
	32	22.757 (ug/lb picked)	55.89	6.8583 1.4315	2.9880	2.8250	2.0450	2.045E-05	4.125E-05	6.188E-04	8.125E-05	2.063E-05	4.125E-05
	33	19.578 (ug/lb picked)	46.08	6.5646 1.2422	1.9920	2.2584	1.771E-05	3.548E-05	5.328E-04	8.708E-05	6.672E-05	1.774E-05	3.549E-05
	34	16.400 (ug/lb picked)	40.20	4.7229 1.0420	0.9450	1.4180	1.3017	1.488E-05	2.973E-05	4.450E-05	5.845E-05	7.432E-05	2.220E-05
	35	13.221 (ug/lb picked)	32.47	0.5613 1.1436	0.5620	1.1436	0.5620	1.108E-05	2.368E-05	3.588E-05	4.702E-05	5.891E-05	1.108E-05

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 92 lb/hour).

* LADE (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * (ANNUAL EXPOSURE (day/245 days) * WORK INTERVAL (yr)/AVG. LIFE TIME (yr))

* RISK = [LADE(mg/day) * Q1*(mg/kg/day-1) * (DERMAL ABS. FACTOR(100)) / (DERMAL ABS. FACT. #1) * (DERMAL ABS. FACT. #2)]

EXPOSURE PARAMETERS	
DAILY WORK HOURS:	8
ANNUAL EXPOSURE (days):	15/365/45/400
TOTAL WORK INTERVAL (yr):	20
AVERAGE LIFETIME (yr):	70
DERMAL ABS. FACT. #1:	10
DERMAL ABS. FACT. #2:	10

TOXICOLOGICAL PARAMETERS	
CHLOROTHALONOL Q1* (mg/kg/day)-1:	0.011
AVERAGE WEIGHT:	70
DERMAL ABS. FACT. #1:	20
DERMAL ABS. FACT. #2:	10

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY
 LAD/E RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
 ALL LAD/E RISK VALUES ARE BASED ON INSIDE LEVELS

 EXPOSURES CALCULATED BASED ON (log/cm²) LEVELS

DESCRIPTION	STUDY	EXPOSURE	EXPOSURE	EXPOSURE	FACTOR	LEVELS	LAD/E CALCULATIONS					RISK ANALYSIS					
							DAY	15 DAYS	30 DAYS	45 DAYS	60 DAYS	15 DAYS	30 DAYS	45 DAYS	60 DAYS		
TOTAL INSIDE	0	124.470	(ug/lb picked)	305.72	5.3045	10.7690	207.91	5.2470	10.4940	15.7410	20.9640	1.849E-04	5.078E-04	1.697E-04	5.078E-04	3.365E-04	
	1	121.300	(ug/lb picked)	290.11	5.1085	10.2190	118.121	5.1085	10.2190	15.3285	20.4380	1.608E-04	5.021E-04	1.649E-04	5.021E-04	3.298E-04	
	2	114.943	(ug/lb picked)	262.36	4.9720	9.9440	114.943	4.9720	9.9440	14.9160	19.8660	1.588E-04	4.838E-04	4.838E-04	4.838E-04	4.028E-04	
	3	111.764	(ug/lb picked)	274.49	4.8345	9.6860	104.585	4.8345	9.6860	14.5235	19.3380	1.568E-04	4.628E-04	4.628E-04	4.628E-04	3.212E-04	
	4	108.565	(ug/lb picked)	266.66	4.8070	9.4040	105.408	4.8070	9.4040	14.0910	18.7940	1.478E-04	4.508E-04	4.508E-04	4.508E-04	3.038E-04	
	5	105.408	(ug/lb picked)	258.80	4.5595	9.1190	105.408	4.5595	9.1190	13.9715	18.2278	1.438E-04	4.289E-04	4.289E-04	4.289E-04	2.892E-04	
	6	102.227	(ug/lb picked)	251.07	4.1220	8.8440	102.227	4.1220	8.8440	13.2650	17.8670	1.390E-04	4.109E-04	4.109E-04	4.109E-04	2.760E-04	
	7	99.046	(ug/lb picked)	243.20	4.2845	8.5680	95.870	4.1470	8.2930	12.4400	16.5070	1.353E-04	4.040E-04	4.040E-04	4.040E-04	2.663E-04	
	8	95.870	(ug/lb picked)	235.46	4.1470	8.0166	92.861	4.0095	8.0166	12.0284	16.0378	1.280E-04	3.910E-04	3.910E-04	3.910E-04	2.607E-04	
	9	92.861	(ug/lb picked)	227.65	3.8720	7.7430	89.512	3.8720	7.7430	11.6150	15.4670	1.217E-04	4.243E-04	4.243E-04	4.243E-04	2.520E-04	
	10	89.512	(ug/lb picked)	219.84	3.7345	7.4860	86.333	3.7345	7.4860	11.2034	14.9270	1.197E-04	4.088E-04	4.088E-04	4.088E-04	2.434E-04	
	11	86.333	(ug/lb picked)	212.03	3.5970	7.1930	83.154	3.5970	7.1930	10.7930	14.3670	1.132E-04	3.921E-04	3.921E-04	3.921E-04	2.347E-04	
	12	83.154	(ug/lb picked)	204.23	3.4595	6.9160	79.976	3.4595	6.9160	10.3784	13.8578	1.067E-04	3.262E-04	3.262E-04	3.262E-04	2.261E-04	
	13	76.797	(ug/lb picked)	196.42	3.3220	6.6430	76.797	3.3220	6.6430	9.8650	13.2978	1.044E-04	3.002E-04	3.132E-04	4.176E-04	1.931E-04	
	14	73.616	(ug/lb picked)	188.61	3.1844	6.3680	73.616	3.1844	6.3680	9.3523	12.7378	1.001E-04	2.002E-04	3.002E-04	4.003E-04	1.806E-04	
	15	70.439	(ug/lb picked)	179.73	3.0468	6.0830	67.200	3.0468	6.0830	9.1400	12.1970	9.516E-05	1.915E-04	1.915E-04	1.915E-04	1.639E-04	
	16	67.200	(ug/lb picked)	165.19	2.8094	5.8100	62.396	2.8094	5.8100	8.7285	11.8578	9.144E-05	1.629E-04	1.629E-04	1.629E-04	1.517E-04	
	17	64.082	(ug/lb picked)	157.36	2.7719	5.5430	57.724	2.8344	5.2800	110.54	11.0770	8.712E-05	1.742E-04	1.742E-04	1.742E-04	1.507E-04	
	18	60.903	(ug/lb picked)	149.58	141.77	4.9860	54.543	141.77	4.9860	7.4900	9.0477	7.846E-05	1.570E-04	1.570E-04	1.570E-04	1.377E-04	
	19	57.724	(ug/lb picked)	133.86	2.2694	4.7180	51.396	2.2216	4.4336	6.0950	7.0763	9.427E-05	1.483E-04	1.483E-04	1.483E-04	1.301E-04	
	20	54.543	(ug/lb picked)	127.00	4.4336	4.1680	48.164	116.35	4.0844	6.2533	8.3277	8.851E-05	1.370E-04	1.370E-04	1.370E-04	1.212E-04	
	21	51.396	(ug/lb picked)	120.15	4.0844	3.8400	45.008	110.54	4.0844	6.8400	8.7777	5.807E-05	1.137E-04	1.137E-04	1.137E-04	1.051E-04	
	22	48.164	(ug/lb picked)	102.73	1.2694	3.6160	41.830	102.73	1.2694	5.4262	7.2277	5.826E-05	1.051E-04	1.051E-04	1.051E-04	9.530E-05	
	23	45.008	(ug/lb picked)	39.851	3.6160	3.3636	35.472	39.851	3.6160	5.0197	6.0076	5.252E-05	2.027E-04	2.027E-04	2.027E-04	1.862E-05	
	24	41.830	(ug/lb picked)	71.51	1.2594	2.5160	32.294	1.2594	2.5160	4.1807	5.5976	4.390E-05	1.317E-04	1.317E-04	1.317E-04	1.214E-04	
	25	39.851	(ug/lb picked)	63.70	1.1219	2.2436	31.115	1.1219	2.2436	4.0367	4.4976	3.852E-05	1.187E-04	1.187E-04	1.187E-04	1.086E-04	
	26	37.651	(ug/lb picked)	55.69	0.9844	1.8636	25.938	0.9844	1.8636	4.0467	3.9276	3.084E-05	9.188E-05	9.188E-05	9.188E-05	8.188E-05	
	27	35.472	(ug/lb picked)	48.06	0.8468	1.5176	18.5176	0.8468	1.5176	3.9407	3.3676	2.082E-05	5.322E-05	5.322E-05	5.322E-05	4.459E-05	
	28	32.294	(ug/lb picked)	40.20	0.7084	1.4160	18.400	0.7084	1.4160	2.6182	2.6175	2.230E-05	4.459E-05	4.459E-05	4.459E-05	3.569E-05	
	29	29.115	(ug/lb picked)	32.47	0.5719	1.1436	13.221	0.5719	1.1436	0.5719	1.7196	2.2875	1.787E-05	6.392E-05	6.392E-05	6.392E-05	3.569E-05

NOTES:

- (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- EXPOSURE (mg/day) • EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/bunches picked) * DAILY HOURS
- TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (607 +/- 52 lb/hour).
- LAD/E (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * (ANNUAL EXPOSURE (kg/year)/[AVG. LIFETIME (yr)]) / (WORK INTERVAL (days)/[BODY WEIGHT (kg)])
- RISK = |LAD/E (mg/day) * Q1*(mg/kg/day)-1| * (DERMAL ABS. FACT. #1 (%) + DERMAL ABS. FACT. #2 (%))

TOXICOLOGICAL PARAMETERS					
DAILY WORK HOURS:		15.70/AS/90		60	
ANNUAL EXPOSURE (days):		50		307	
TOTAL WORK INTERVAL (years):		70		307	
AVERAGE LIFETIME (yr):		20		20	
AVERAGE PICKING RATE (bunches):		10		10	

- (mg/kg/day) * EXPOSURE (mg/day) * DAILY HOURS OR EXPOSURE (mg/bunches picked) * DAILY HOURS
- (mg/kg/day) * EXPOSURE (mg/day) * DAILY HOURS
- (mg/kg/day) * EXPOSURE (mg/day) * DAILY HOURS
- (mg/kg/day) * EXPOSURE (mg/day) * DAILY HOURS

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY

LADER/RISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADER/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FOR [ug/cm²] LEVELS

DESCRIPTION	STUDY	DAY	LEVELS	EXPOSURE	EXPOSURE	EXPOSURE	LADe CALCULATIONS						RISK ANALYSIS					
							15 DAYS	30 DAYS	45 DAYS	60 DAYS	80 DAYS	100 DAYS	150 DAYS	200 DAYS	250 DAYS	300 DAYS	400 DAYS	500 DAYS
TOTAL INSIDE	0	124,479	(ug/lb picked)	305.72	1,749.8	3,568.7	5,3845	7,179.9	8,990.0	5,247.0	5,174.0	4,231.0	5,941E-05	2,820E-05	5,841E-05	2,820E-05	5,841E-05	2,820E-05
	1	121,300	(ug/lb picked)	267.91	1,749.0	3,490.0	5,1085	6,6127	1,389E-05	2,670E-05	4,019E-05	5,497E-05	4,123E-05	5,497E-05	2,748E-05	5,497E-05	2,748E-05	5,497E-05
	2	118,121	(ug/lb picked)	280.11	1,7032	3,4063	5,1085	6,6127	1,389E-05	2,670E-05	4,019E-05	5,385E-05	2,670E-05	4,019E-05	2,670E-05	5,385E-05	2,670E-05	5,385E-05
	3	114,943	(ug/lb picked)	262.30	1,6573	3,3147	4,9720	6,6263	1,302E-05	2,800E-05	3,907E-05	5,200E-05	2,804E-05	3,907E-05	2,804E-05	3,907E-05	2,804E-05	3,907E-05
	4	111,764	(ug/lb picked)	274.49	1,6115	3,2220	4,6343	6,4490	1,298E-05	2,895E-05	3,832E-05	5,089E-05	2,895E-05	3,832E-05	2,895E-05	3,832E-05	2,895E-05	3,832E-05
	5	108,585	(ug/lb picked)	286.88	1,5857	3,1313	4,3897	6,9870	1,282E-05	2,930E-05	3,860E-05	5,212E-05	2,930E-05	3,860E-05	2,930E-05	3,860E-05	2,930E-05	3,860E-05
	6	105,406	(ug/lb picked)	258.86	1,5198	3,0367	4,5595	6,0793	1,184E-05	2,989E-05	3,898E-05	4,777E-05	2,989E-05	3,898E-05	2,989E-05	3,898E-05	2,989E-05	3,898E-05
	7	102,227	(ug/lb picked)	251.07	1,4740	2,9490	4,4220	5,9690	1,159E-05	2,918E-05	3,747E-05	4,838E-05	2,918E-05	3,747E-05	2,918E-05	3,747E-05	2,918E-05	3,747E-05
	8	99,048	(ug/lb picked)	243.26	1,4262	2,8503	4,2645	5,7126	1,122E-05	2,844E-05	3,698E-05	4,689E-05	2,844E-05	3,698E-05	2,844E-05	3,698E-05	2,844E-05	3,698E-05
	9	95,870	(ug/lb picked)	235.48	1,3823	2,7946	4,1470	5,6233	1,098E-05	2,717E-05	3,625E-05	4,644E-05	2,717E-05	3,625E-05	2,717E-05	3,625E-05	2,717E-05	3,625E-05
	10	92,691	(ug/lb picked)	227.85	1,3395	2,6730	4,0095	5,2480	1,059E-05	2,102E-05	3,180E-05	4,200E-05	2,102E-05	3,180E-05	2,102E-05	3,180E-05	2,102E-05	3,180E-05
	11	89,512	(ug/lb picked)	219.84	1,2907	2,5813	3,8720	5,1628	1,014E-05	2,029E-05	3,042E-05	4,109E-05	2,029E-05	3,042E-05	2,029E-05	3,042E-05	2,029E-05	3,042E-05
	12	86,333	(ug/lb picked)	212.03	1,2448	2,4889	3,7345	4,9793	9,781E-06	1,856E-05	2,834E-05	3,812E-05	1,856E-05	2,834E-05	1,856E-05	2,834E-05	1,856E-05	2,834E-05
	13	83,154	(ug/lb picked)	204.23	1,1890	2,3990	3,5970	4,7936	9,421E-06	1,884E-05	2,768E-05	3,708E-05	1,884E-05	2,768E-05	1,884E-05	2,768E-05	1,884E-05	2,768E-05
	14	79,976	(ug/lb picked)	196.42	1,1532	2,3093	3,4995	4,6126	9,090E-06	1,811E-05	2,612E-05	3,574E-05	1,811E-05	2,612E-05	1,811E-05	2,612E-05	1,811E-05	2,612E-05
	15	76,797	(ug/lb picked)	188.61	1,1073	2,2148	3,3220	4,4293	8,700E-06	1,740E-05	2,540E-05	3,420E-05	1,740E-05	2,540E-05	1,740E-05	2,540E-05	1,740E-05	2,540E-05
	16	73,618	(ug/lb picked)	180.81	1,0615	2,1220	3,1844	4,2450	8,340E-06	1,689E-05	2,450E-05	3,338E-05	1,689E-05	2,450E-05	1,689E-05	2,450E-05	1,689E-05	2,450E-05
	17	70,439	(ug/lb picked)	173.00	1,0156	2,0313	3,0460	4,0626	7,980E-06	1,640E-05	2,360E-05	3,238E-05	1,640E-05	2,360E-05	1,640E-05	2,360E-05	1,640E-05	2,360E-05
	18	67,260	(ug/lb picked)	165.19	9,9690	1,9390	2,9004	3,8793	7,620E-06	1,592E-05	2,298E-05	3,192E-05	1,592E-05	2,298E-05	1,592E-05	2,298E-05	1,592E-05	2,298E-05
	19	64,082	(ug/lb picked)	157.38	9,8240	1,8490	2,7719	3,6956	7,280E-06	1,452E-05	2,178E-05	2,904E-05	1,452E-05	2,178E-05	1,452E-05	2,178E-05	1,452E-05	2,178E-05
	20	60,903	(ug/lb picked)	149.50	8,8761	1,7563	2,6146	3,5244	6,920E-06	1,360E-05	2,070E-05	2,760E-05	1,360E-05	2,070E-05	1,360E-05	2,070E-05	1,360E-05	2,070E-05
	21	57,724	(ug/lb picked)	141.77	8,5823	1,6844	2,4869	3,3400	5,340E-06	2,106E-05	2,810E-05	3,338E-05	2,106E-05	2,810E-05	2,106E-05	2,810E-05	2,106E-05	2,810E-05
	22	54,545	(ug/lb picked)	133.98	7,9895	1,5730	2,3594	3,1150	5,179E-06	1,230E-05	1,925E-05	2,472E-05	1,230E-05	1,925E-05	1,230E-05	1,925E-05	1,230E-05	1,925E-05
	23	51,366	(ug/lb picked)	126.18	7,4705	1,4613	2,2219	2,9620	5,619E-06	1,184E-05	1,748E-05	2,328E-05	1,184E-05	1,748E-05	1,184E-05	1,748E-05	1,184E-05	1,748E-05
	24	48,188	(ug/lb picked)	118.35	6,8946	1,3900	2,0944	2,7792	5,459E-06	1,090E-05	1,638E-05	2,194E-05	1,090E-05	1,638E-05	1,090E-05	1,638E-05	1,090E-05	1,638E-05
	25	45,006	(ug/lb picked)	110.54	6,8490	1,3679	1,9400	2,6450	5,098E-06	1,020E-05	1,502E-05	2,070E-05	1,020E-05	1,502E-05	1,020E-05	1,502E-05	1,020E-05	1,502E-05
	26	41,830	(ug/lb picked)	102.73	6,8031	1,2933	1,8084	2,4120	4,739E-06	9,476E-06	1,422E-05	1,886E-05	9,476E-06	1,422E-05	1,886E-05	9,476E-06	1,422E-05	1,886E-05
	27	38,651	(ug/lb picked)	94.93	5,5873	1,1148	1,6719	2,2282	4,379E-06	8,758E-06	1,314E-05	1,752E-05	8,758E-06	1,314E-05	1,752E-05	8,758E-06	1,314E-05	1,752E-05
	28	35,472	(ug/lb picked)	87.12	5,1515	1,0220	1,5344	2,0450	4,019E-06	8,037E-06	1,208E-05	1,607E-05	8,037E-06	1,208E-05	1,607E-05	8,037E-06	1,208E-05	1,607E-05
	29	32,294	(ug/lb picked)	79.31	4,9856	9,8313	1,3609	1,8625	3,656E-06	7,317E-06	1,098E-05	1,453E-05	7,317E-06	1,098E-05	1,453E-05	7,317E-06	1,098E-05	1,453E-05
	30	29,115	(ug/lb picked)	71.51	4,1916	6,6386	1,2584	1,6722	3,286E-06	6,937E-06	9,937E-06	1,319E-05	9,937E-06	9,937E-06	1,319E-05	9,937E-06	1,319E-05	9,937E-06
	31	26,938	(ug/lb picked)	63.70	3,3740	6,7479	1,1219	1,4950	2,938E-06	5,677E-06	8,615E-06	1,175E-05	5,677E-06	8,615E-06	1,175E-05	5,677E-06	8,615E-06	1,175E-05
	32	22,757	(ug/lb picked)	55.89	3,2811	6,6933	6,8644	1,3125	2,579E-06	5,158E-06	7,735E-06	1,031E-05	5,158E-06	7,735E-06	1,031E-05	5,158E-06	7,735E-06	1,031E-05
	33	19,578	(ug/lb picked)	48.08	2,6223	5,5648	8,8468	1,1292	2,218E-06	4,439E-06	6,872E-06	1,174E-05	4,439E-06	6,872E-06	1,174E-05	4,439E-06	6,872E-06	1,174E-05
	34	16,400	(ug/lb picked)	40.28	2,3585	4,7129	7,7094	6,9456	1,868E-06	3,719E-06	5,574E-06	7,432E-06	3,719E-06	5,574E-06	3,719E-06	5,574E-06	3,719E-06	5,574E-06
	35	13,221	(ug/lb picked)	32.47	0,1900	0,9613	0,5718	0,7825	1,498E-06	2,989E-06	4,490E-06	5,801E-06	2,989E-06	4,490E-06	5,801E-06	2,989E-06	4,490E-06	5,801E-06

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR EXPOSURE (mg/lb tomatoes picked) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADe (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * [ANNUAL EXPOSURE (day)/365 (days)] * [WORK INTERVAL (year)/VG. LIFETIME (year)]

* RISK = |LADe| * Q1* (mg/kg/day) * Q1* (mg/kg/day) * DERMAL ABS. FACT. #1 (body weight / 100)

* (mg/day) = EXPOSURE (mg/day) * AVERAGE WEIGHT: (kg/day)

* AVERAGE WEIGHT: (kg/day) = (DERMAL ABS. FACT. #1) * (DERMAL ABS. FACT. #2) * (1 - (Q1* / 100))

* DERMAL ABS. FACT. #1 (%): (Q1* / 100) * (1 - (Q1* / 100))

* DERMAL ABS. FACT. #2 (%): (Q1* / 100) * (1 - (Q1* / 100))

* Q1* = (CHLOROTHALONIL Q1* (mg/kg/day) * AVERAGE WEIGHT: (kg/day)) / (CHLOROTHALONIL Q1* (mg/kg/day) * AVERAGE WEIGHT: (kg/day))

* CHLOROTHALONIL Q1* (mg/kg/day): (CHLOROTHALONIL Q1* (mg/kg/day) * AVERAGE WEIGHT: (kg/day)) / (CHLOROTHALONIL Q1* (mg/kg/day) * AVERAGE WEIGHT: (kg/day))

* AVERAGE WEIGHT: (kg/day) = (DERMAL ABS. FACT. #1 (%)) * (DERMAL ABS. FACT. #2 (%))

* DERMAL ABS. FACT. #1 (%): (Q1* / 100) * (1 - (Q1* / 100))

* DERMAL ABS. FACT. #2 (%): (Q1* / 100) * (1 - (Q1* / 100))

* Q1* = (CHLOROTHALONIL Q1* (mg/kg/day) * AVERAGE WEIGHT: (kg/day)) / (CHLOROTHALONIL Q1* (mg/kg/day) * AVERAGE WEIGHT: (kg/day))

* AVERAGE WEIGHT: (kg/day) = (DERMAL ABS. FACT. #1 (%)) * (DERMAL ABS. FACT. #2 (%))

* DERMAL ABS. FACT. #1 (%): (Q1* / 100) * (1 - (Q1* / 100))

* DERMAL ABS. FACT. #2 (%): (Q1* / 100) * (1 - (Q1* / 100))

* Q1* = (CHLOROTHALONIL Q1* (mg/kg/day) * AVERAGE WEIGHT: (kg/day)) / (CHLOROTHALONIL Q1* (mg/kg/day) * AVERAGE WEIGHT: (kg/day))

* AVERAGE WEIGHT: (kg/day) = (DERMAL ABS. FACT. #1 (%)) * (DERMAL ABS. FACT. #2 (%))

* DERMAL ABS. FACT. #1 (%): (Q1* / 100) * (1 - (Q1* / 100))

* DERMAL ABS. FACT. #2 (%): (Q1* / 100) * (1 - (Q1* / 100))

* Q1* = (CHLOROTHALONIL Q1* (mg/kg/day) * AVERAGE WEIGHT: (kg/day)) / (CHLOROTHALONIL Q1* (mg/kg/day) * AVERAGE WEIGHT: (kg/day))

* AVERAGE WEIGHT: (kg/day) = (DERMAL ABS. FACT. #1 (%)) * (DERMAL ABS. FACT. #2 (%))

PPA SUPPORT TASK 210-003
VERSAR INC. 9/15/93 JLD
REVIEW OF CHLOROTHALONYL FOLIAR DISLOCATEABLE RESIDUE EXPOSURE STUDY
ADDERISK CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL
ALL LINEAR VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

NOTES

- * (kg/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES
- * (kg/hour) = EXPOSURE (kg/day) * DAILY HOURS OF EXPOSURE (kg/hour) * PICKING RATE (kg/hour) * DAILY HOURS
- * EXPOSURE (kg/day) = EXPOSURE (kg/hour) * DAILY HOURS OF EXPOSURE (kg/hour)
- * EXPOSURE RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).
- * LATE (kg/day) = EXPOSURE PER EVENT CYCLE (kg/day) / ANNUAL EXPOSURE (days/365) / WORK INTERVAL (hrs/avg. lifetime (hrs))

REVIEW OF CHLOROTHALONIL FOLIAR DISLOCGEABLE RESIDUE/EXPOSURE STUDY

LADER CALCULATIONS USING EXPOSURES CALCULATED BASED ON THE RELATIONSHIP TO RESIDUE LEVEL

ALL LADER/RISK VALUES ARE BASED ON INSIDE EXPOSURE LEVELS

EXPOSURES CALCULATED BASED ON FDR (ug/cm²) LEVELS

DESCRIPTION	STUDY	EXPOSURE	EXPOSURE	EXPOSURE	LADER CALCULATIONS				DERMAL ABSORPTION FACTOR #1				RISK ANALYSIS				
					LEVELS	FACTOR	(mg/day)	15 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	30 DAYS	45 DAYS	60 DAYS	75 DAYS	
TOTAL INSIDE	0	124.479	(ug/lb picked)	305.72	5.3645	10.7690	18.1535	21.5390	4.231E-05	8.491E-05	1.629E-04	8.461E-05	1.092E-05	2.539E-05	3.365E-05	3.365E-05	
	1	121.300	(ug/lb picked)	287.91	5.2470	10.4840	15.7410	20.9680	4.123E-05	6.245E-05	1.237E-04	1.948E-04	1.849E-05	2.474E-05	3.296E-05	3.296E-05	
	2	116.121	(ug/lb picked)	280.11	5.1095	10.2190	15.3265	20.4380	4.015E-05	6.029E-05	1.204E-04	1.808E-04	1.808E-05	2.408E-05	3.212E-05	3.212E-05	
	3	114.943	(ug/lb picked)	282.30	4.9720	9.9440	14.8160	19.8880	3.907E-05	7.813E-05	1.172E-04	1.953E-04	1.953E-05	2.344E-05	3.125E-05	3.125E-05	
	4	111.764	(ug/lb picked)	274.49	4.8245	9.6990	14.5035	19.2380	3.798E-05	7.597E-05	1.140E-04	1.913E-04	1.913E-05	2.277E-05	3.038E-05	3.038E-05	
	5	108.585	(ug/lb picked)	266.58	4.6870	9.3840	14.0610	18.7880	3.680E-05	7.391E-05	1.107E-04	1.876E-04	1.876E-05	2.214E-05	2.952E-05	2.952E-05	
	6	105.408	(ug/lb picked)	258.68	4.5595	9.1100	13.6785	18.2370	3.562E-05	7.185E-05	1.075E-04	1.835E-04	1.835E-05	2.186E-05	2.898E-05	2.898E-05	
	7	102.227	(ug/lb picked)	251.07	4.4220	8.8440	13.2650	17.8870	3.474E-05	6.948E-05	1.042E-04	1.800E-04	1.800E-05	2.069E-05	2.767E-05	2.767E-05	
	8	99.046	(ug/lb picked)	243.28	4.2845	8.5690	12.8534	17.1570	3.398E-05	6.738E-05	1.010E-04	1.747E-04	1.747E-05	2.030E-05	2.698E-05	2.698E-05	
	9	95.870	(ug/lb picked)	235.48	4.1470	8.2920	12.4400	16.9870	3.298E-05	6.517E-05	9.775E-05	1.702E-04	1.702E-05	1.955E-05	2.607E-05	2.607E-05	
	10	92.691	(ug/lb picked)	227.65	4.0095	8.0180	12.0284	16.0370	3.195E-05	6.301E-05	9.451E-05	1.680E-04	1.680E-05	1.860E-05	2.520E-05	2.520E-05	
	11	89.512	(ug/lb picked)	219.84	3.8720	7.7430	11.6150	15.4870	3.042E-05	6.085E-05	9.127E-05	1.617E-04	1.617E-05	1.825E-05	2.434E-05	2.434E-05	
	12	86.333	(ug/lb picked)	212.03	3.7345	7.4880	11.2034	14.9370	2.934E-05	5.868E-05	8.895E-05	1.574E-04	1.574E-05	1.787E-05	2.347E-05	2.347E-05	
	13	83.154	(ug/lb picked)	204.20	3.5970	7.1920	10.7920	14.3670	2.826E-05	5.652E-05	8.479E-05	1.530E-04	1.530E-05	1.739E-05	2.310E-05	2.310E-05	
	14	79.978	(ug/lb picked)	196.42	3.4595	6.9160	10.5784	13.8370	2.718E-05	5.438E-05	8.194E-05	1.498E-04	1.498E-05	1.690E-05	2.291E-05	2.291E-05	
	15	75.797	(ug/lb picked)	189.81	3.3220	6.6430	9.8650	13.2670	2.610E-05	5.220E-05	7.830E-05	1.464E-04	1.464E-05	1.660E-05	2.209E-05	2.209E-05	
	16	73.616	(ug/lb picked)	180.81	3.1844	6.3680	9.5630	12.7370	2.502E-05	5.004E-05	7.508E-05	1.401E-04	1.401E-05	1.561E-05	2.150E-05	2.150E-05	
	17	70.439	(ug/lb picked)	173.00	3.0460	6.0900	9.1400	12.1970	2.394E-05	4.798E-05	7.182E-05	1.357E-04	1.357E-05	1.438E-05	2.071E-05	2.071E-05	
	18	67.260	(ug/lb picked)	165.19	2.8084	5.8180	8.7263	11.6370	2.286E-05	4.572E-05	6.858E-05	9.144E-04	9.144E-05	1.372E-05	1.928E-05	1.928E-05	
	19	64.082	(ug/lb picked)	157.39	2.7719	5.5430	8.3150	11.0970	2.179E-05	4.368E-05	6.594E-05	8.712E-05	8.712E-05	1.307E-05	1.795E-05	1.795E-05	
	20	60.903	(ug/lb picked)	149.50	2.6344	5.2850	7.9033	10.5370	2.070E-05	4.105E-05	6.200E-05	8.420E-05	8.420E-05	1.242E-05	1.656E-05	1.656E-05	
	21	57.724	(ug/lb picked)	141.77	2.4960	4.9800	7.4900	9.0377	1.982E-05	3.924E-05	5.698E-05	7.848E-05	7.848E-05	1.177E-05	1.570E-05	1.570E-05	
	22	54.545	(ug/lb picked)	133.90	2.3504	4.7180	6.9377	8.4377	1.894E-05	3.708E-05	5.582E-05	7.415E-05	7.415E-05	1.112E-05	1.483E-05	1.483E-05	
	23	51.366	(ug/lb picked)	126.10	2.2210	4.4430	6.0950	8.0877	1.748E-05	3.492E-05	5.237E-05	6.846E-05	6.846E-05	1.047E-05	1.397E-05	1.397E-05	
	24	48.188	(ug/lb picked)	116.35	2.0844	4.1650	5.2533	6.3377	1.638E-05	3.270E-05	4.913E-05	6.353E-05	6.353E-05	9.827E-06	1.310E-05	1.310E-05	
	25	45.009	(ug/lb picked)	110.54	1.9460	3.9650	5.0400	5.7277	1.530E-05	3.036E-05	4.598E-05	6.119E-05	6.119E-05	8.119E-06	1.224E-05	1.224E-05	
	26	41.830	(ug/lb picked)	102.73	1.8004	3.6180	4.7480	5.2377	1.422E-05	2.848E-05	4.286E-05	5.867E-05	5.867E-05	8.587E-06	1.137E-05	1.137E-05	
	27	38.651	(ug/lb picked)	94.93	1.6719	3.3430	4.0157	4.8270	1.314E-05	2.627E-05	3.941E-05	5.255E-05	5.255E-05	7.692E-06	1.051E-05	1.051E-05	
	28	35.472	(ug/lb picked)	87.12	1.5344	3.0650	3.8040	4.8032	1.2130	2.020E-05	3.411E-05	4.822E-05	6.211E-05	6.211E-05	7.234E-06	9.845E-06	9.845E-06
	29	32.294	(ug/lb picked)	79.31	1.3969	2.7930	4.1007	5.9370	1.098E-05	2.195E-05	3.236E-05	4.393E-05	4.393E-05	5.195E-06	6.791E-06	6.791E-06	
	30	29.115	(ug/lb picked)	71.51	1.2594	2.5190	3.7772	5.0370	8.895E-06	1.979E-05	2.980E-05	3.950E-05	3.950E-05	5.695E-06	6.937E-06	6.937E-06	
	31	25.938	(ug/lb picked)	63.70	1.1210	2.2430	3.3857	4.4070	6.915E-06	1.763E-05	2.844E-05	3.538E-05	3.538E-05	5.293E-06	6.792E-06	6.792E-06	
	32	22.757	(ug/lb picked)	55.89	0.9844	1.8650	2.6532	3.9370	7.735E-06	1.547E-05	2.320E-05	3.004E-05	3.004E-05	4.841E-06	6.189E-06	6.189E-06	
	33	19.578	(ug/lb picked)	48.08	0.8460	1.6030	2.5407	3.3070	6.654E-06	1.331E-05	2.092E-05	2.802E-05	2.802E-05	4.392E-06	5.929E-06	5.929E-06	
	34	16.400	(ug/lb picked)	40.20	0.7004	1.4100	2.1262	2.8375	5.574E-06	1.115E-05	1.972E-05	2.230E-05	2.230E-05	3.344E-06	4.490E-06	4.490E-06	
	35	13.221	(ug/lb picked)	32.47	0.5719	1.1450	1.7150	2.2675	4.482E-06	8.807E-06	1.244E-05	1.797E-05	1.797E-05	3.086E-06	3.086E-06	3.086E-06	

NOTES:

* (ug/hour) LEVELS REPRESENT EXPOSURE LEVELS FOR EACH HOUR SPENT HARVESTING TOMATOES

* EXPOSURE (mg/day) = EXPOSURE (mg/hour) * DAILY HOURS OR PICKING RATE (lb/hour) * DAILY HOURS

* TOMATO PICKING RATE BASED ON DATA AVAILABLE IN THE STUDY. RATES WERE CALCULATED FOR ALL REPLICATES AND THE OVERALL AVERAGE RATE IS USED ABOVE (307 +/- 52 lb/hour).

* LADER (mg/day) = EXPOSURE PER EVENT CYCLE (mg/day) * (ANNUAL EXPOSURE (mg/day)/365 days) * (WORK INTERVAL (hr)/AVG. LIFETIME (hr))

* RISK = [LADER (mg/day) * Q1 (mg/g/day) * G1 (mg/g/day)] / (DERMAL ABS. FACT. #1) (mg/cm²) / (BODY WEIGHT (kg))

* LADER = LADER (mg/day) * EXPOSURE (mg/day) * DAILY HOURS

* DERMAL ABS. FACT. #1 = (DERMAL ABS. FACT. #1 (%)) / 100

* DERMAL ABS. FACT. #2 = (DERMAL ABS. FACT. #2 (%)) / 100

* TOTAL WORK HOURS = 15/365(53/360)

* ANNUAL EXPOSURE (mg/day) = 307

* AVERAGE WEIGHT: 70

* DERMAL ABS. FACT. #1: 1

* DERMAL ABS. FACT. #2: 1

* CHLOROTHALONIL Q1 (%): 1

* G1 (%): 5

* BODY WEIGHT: 70

* WORK INTERVAL (hr): 1

* DAILY HOURS: 1

* DERMAL ABS. FACT. #1 (%): 1

* DERMAL ABS. FACT. #2 (%): 1

* AVERAGE WEIGHT: 70

* CHLOROTHALONIL DT₅₀ (hr): 1

* AVERAGE WEIGHT: 70

* DERMAL ABS. FACT. #1 (%): 1

* DERMAL ABS. FACT. #2 (%): 1

* DERMAL ABS. FACT. #1 (%): 1

* DERMAL ABS. FACT. #2 (%): 1

* BODY WEIGHT: 70

* WORK INTERVAL (hr): 1

* DAILY HOURS: 1

* DERMAL ABS. FACT. #1 (%): 1

* DERMAL ABS. FACT. #2 (%): 1

* AVERAGE WEIGHT: 70

* CHLOROTHALONIL DT₅₀ (hr): 1

* AVERAGE WEIGHT: 70

* DERMAL ABS. FACT. #1 (%): 1

* DERMAL ABS. FACT. #2 (%): 1

* DERMAL ABS. FACT. #1 (%): 1

* DERMAL ABS. FACT. #2 (%): 1

* BODY WEIGHT: 70

* WORK INTERVAL (hr): 1

* DAILY HOURS: 1

* DERMAL ABS. FACT. #1 (%): 1

* DERMAL ABS. FACT. #2 (%): 1

* AVERAGE WEIGHT: 70

* CHLOROTHALONIL DT₅₀ (hr): 1

* AVERAGE WEIGHT: 70

* DERMAL ABS. FACT. #1 (%): 1

* DERMAL ABS. FACT. #2 (%): 1

* DERMAL ABS. FACT. #1 (%): 1

* DERMAL ABS. FACT. #2 (%): 1

* BODY WEIGHT: 70

* WORK INTERVAL (hr): 1

* DAILY HOURS: 1

* DERMAL ABS. FACT. #1 (%): 1

* DERMAL ABS. FACT. #2 (%): 1

* AVERAGE WEIGHT: 70

* CHLOROTHALONIL DT₅₀ (hr): 1

* AVERAGE WEIGHT: 70

* DERMAL ABS. FACT. #1 (%): 1

13544

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Chemical: Chlorothalonil

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081901

HED File Code: 14000 Risk Reviews

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