US ERA ARCHIVE DOCUMENT



UNITED STATES ENVIRONMENTAL PROTECTION WASHINGTON, D.C. 20460

nct 28 1994

MEMORANDUM

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

SUBJECT:

Fenamiphos: Revised Dietary Exposure Analysis in

Support of the Reregistration Eligibility Document.

FROM:

Jennifer M. Wintersteen Junifer M. Wuntersteen Dietary Risk Evaluation Section

Science Analysis Branch/MED

(7509C)

TO:

Jane S. Smith, Chemical Manager

Reregistration Section

Chemical Coordination Branch

(7505C)

THROUGH:

Elizabeth A. Doyle, Section Head Dietary Risk Evaluation Section

SAB/Health Effects Division

Action Requested

Provide a revised DRES analysis to estimate the chronic and acute dietary exposure and risk from fenamiphos food uses that are either published or being supported through reregistration. Originally CBRS recommended for new tolerances on poultry and eggs for reregistration. Metabolism data on poultry has been reviewed and there appears to be no need for tolerances on these commodities (C. Olinger personal communication, 10/20/94)

Discussion

Toxicological Endpoint

The chronic analysis used a Reference Dose (RfD) of 0.0001 mg/kg body weight/day, based on a no observed effect level (NOEL) of 0.01 mg/kg bwt/day and an uncertainty factor of 100. The NOEL is based on results of a two-year feeding study in beagle dogs which demonstrated plasma cholinesterase inhibition at the next highest

The HED Carcinogenicity Peer Review Committee classified fenamiphos as a Group E carcinogen (G. Ghali memo, 11/23/93). The same memo notes that there was no evidence to suggest that the chemical was a developmental or reproductive toxicant.

A Toxicology memo indicates that acute cholinesterase inhibition was of concern for fenamiphos (M. Van Gemert memo, 1/14/94). In order to assess the acute dietary risk for fenamiphos a NOEL of 0.5 mg/kg bwt/day for maternal toxicity from the rat developmental study was supplied in the same memo as appropriate for acute dietary assessment.

Residue Information

Food uses in this analysis include all published tolerances listed in the Tolerance Index System (TIS) and 40 CFR \$180.349 and \$180.2950. All published tolerances are being supported in reregistration except soybeans and cocoa beans. New values for anticipated residues (ARs) have been prepared by Chemistry Branch-Reregistration Support (CBRS). ARs are listed in Table 1 of a C. Olinger memo, Reregistration of Fenamiphos, 12/20/93. Tolerances exist for feed items such as apple pomace, pineapple bran and raisin waste which result in secondary residues in meat of cattle, goats, horse, poultry, hogs and sheep as well as milk and eggs.

In the Reregistration Eligibility Document (C. Olinger memo, 1/26/94) CBRS recommends for a tolerance reassessment for certain commodities. CBRS recommends for a crop group tolerance for the citrus fruits group at 0.5 ppm and the revocation of established tolerances for grapefruit, lemons, limes, oranges and tangerines of 0.6 ppm. In the analysis the raw agricultural commodities (RACs) kumquat, citron and tangelo were added at 0.5 ppm and the other citrus RAC tolerances were unchanged at 0.6 ppm. CBRS recommends for the revocation of established tolerances on cocoa beans and soybeans since there are no registered uses of fenamiphos on these crops. These RACs were left in the analysis since they are still published tolerances.

CBRS also recommended the tolerance for peanuts should be increased from 0.02 to 1.0 ppm for reregistration. The DRES analysis reflects the higher proposed value. Finally, a food additive tolerance was proposed by the Registrant on pineapple juice at 0.5 ppm. This tolerance has been included in the analysis. No pending tolerances have been included in the revised file.

Percent Crop Treated

Percent crop treated (PCT) information used in the chronic exposure analysis was supplied by the Biological and Economic Analysis Division (BEAD) in an E. Maurer memo dated 5/20/93. In the BEAD memo no known usage was indicated for some commodities and were assumed to be 100% crop treated in the analysis. Bananas and pineapple were included in the list of commodities with no known usage from BEAD. These commodities are often imported and in order to estimate the amount of crop imported the USDA Pesticide Data Program Report of January-June 1992 was used and estimated 100% crop imported for bananas and 36% for pineapple. The DRES analysis assumed that all imports were treated, and thus used 100% and 36% as the percent-crop-treated values for bananas and pineapples respectively.

The DRES chronic analysis represents an overestimation of exposure and risk in that it considers risk not only from the recommended uses through reregistration, but also from uses which have been recommended for by the Chemistry and Toxicology Branches of the Health Effects Division but have not been published in the Federal Register. However, to the extent that it uses Anticipated Residues and percent-crop-treated information, it is not "worst-case". A summary of the residue information used in this analysis

is attached as Table 1.

Chronic Exposure

The DRES chronic analysis used tolerance level residues to calculate the Theoretical Maximum Residue Contribution (TMRC) for the overall U.S. population and 22 population subgroups.

Refinements in residue and percent crop treated information were considered in calculating the Anticipated Residue Contribution (ARC) for those same population groups. The ARC is considered the more accurate estimate of dietary exposure. These exposure estimates were then compared to the RfD for fenamiphos to get estimates of chronic dietary risk. Summaries of the TMRCs, ARCs, and their representations as percentages of the RfD are attached as Tables 2, 3a and 3b.

The ARC for the U.S. population from the published uses of fenamiphos being recommended through reregistration is 1.0 x 10^{-5} mg/kg bwt/day, which represents 10% of the RfD. The proposed tolerances being recommended through reregistration contribute 1.0 x 10^{-6} mg/kg bwt/day, or 1% of the RfD. If all new commodities proposed in reregistration were published the resulting ARC would be 1.1 x 10^{-5} mg/kg bwt/day, representing 11% of the RfD for the general U.S. population.

The ARC from published uses for the most highly exposed DRES subgroup, non-nursing infants less than one, is 4.0×10^{-5} mg/kg bwt/day (40% of the RfD). The ARC for new tolerances recommended in reregistration contributes less than 1.0×10^{-6} mg/kg bwt/day (0.02% of the RfD). If all new tolerances were published for fenamiphos, the resulting ARC for non-nursing infants less than one would be 4.0×10^{-5} mg/kg bwt/day, representing 40% of the RfD.

The U.S. population and all the DRES subgroups have ARCs for chronic dietary risk below the RfD when all published and new commodities are considered. No pending commodities were considered in this revised analysis. It appears that chronic dietary risk is minimal for this chemical for published and recommended new tolerances.

Acute Exposure

The DRES detailed acute exposure analysis evaluates individual food consumption as reported by respondents in the USDA 77-78 Nationwide Food Consumption Survey (NFCS) and estimates the distribution of single day exposures through the diet for the U.S. population and certain subgroups. The analysis assumes uniform distribution of fenamiphos in the commodity supply. Since the toxicological effect to which high end exposure is being compared in this analysis is cholinesterase inhibition, all standard DRES subgroups are of concern. The analysis includes the U.S. population-48 states and four subgroups: Infants (<1 year), children (1-6 years), females (13+ years) and males (13+ years).

The Margin of Exposure (MOE) is a measure of how closely the high end exposure comes to the NOEL (the highest dose at which no effects were observed in the laboratory test), and is calculated as the ratio of the NOEL to the exposure (NOEL/exposure = MOE). For

cholinesterase inhibition, the Agency is not generally concerned unless the MOE is below 100.

Two revised analyses were conducted. One analysis used published tolerances, including soybeans and cocoa beans, with tolerance level residues. Another analysis included only published tolerances being recommended through reregistration, that is, soybeans and cocoa beans were not included in the analysis. The analyses calculated the exposure of the highest exposed individual for the U.S. population in the distribution and compared the exposure to the NOEL of 0.5 mg/kg bwt/day from the rabbit developmental study (M. Van Gemert memo, 1/14/94). The table below provides the calculated MOEs for all five subgroups.

ACUTE ANALYSIS USING ALL PUBLISHED TOLERANCES AT TOLERANCE LEVEL

DRES Subgroup	95-96%ile MOE NOEL/Exposure	99%ile MOE NOEL/Exposure
U.S. pop48 states	56	20
Infants (< 1 year)	20	7
Children (1-6 years)	25	10
Females (13+ years)	83	33
Males (13+ years)	100	33

No difference in the calculated MOEs was seen when soybeans and cocoa beans were removed from the acute analysis; therefore, these commodities appear not to be driving the acute analysis.

A table of distribution of exposures used in this analysis is attached as Table 4; this table includes on it the calculation of the MOEs for all five subgroups. This is the first time that acute exposure has been calculated for fenamiphos using the DRES system. The estimates of 95th or 96th percentiles are rough calculations and should be considered estimates only. The calculated high end MOEs are of concern for all five subgroups used in the DRES acute program.

Attachments

cc: DRES, CBRS, Tox II, RD Team 22 (Jim Stone), Caswell #453A

	SHELL	
	NUMBER	
	453A	
	DATE:	
	10/26/94	

AF50020	. 02005JA	02005HA	02005AB	02005AA	.02004JA	02004JA	02004JA	02004JA	02004HA	02004HA	02004AB	02004AB	02004AA	02004AA	02003AA	02002JA	02002AB	BV20020	02002AA	02001AA	01016AA	01016AA	01016AA	0101414	01014JA	0101404	01014DA	01014DA	01014AA	01014	01006AA	01006AA	01006AA	01006AA	01006AA	FOOD CODE	<u> </u>]
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FOOD CODE

F00

FOOD FORM

PET.#

(modq)

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DATE: 10/26/94

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FT/PROCESSING FT/PROCESSING FEEDING STUDY .		FT/PROCESSING FT/PROCESSING FT/PROCESSING	FIELD TRIAL	S DATA GAPS/COMMENTS Chronic feeding-dog (current study may be up- graded) AR STATISTIC TYPE % CROP TR	DATE
1.00 14.00 100.00		1111122108 11108	100.00 100.00 100.00 2.00 2.00 2.00 2.00	be up-	DATE: 10/26/94
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53006BB

PORK-MEAT BYP SHEEP-LEAN SHEEP-LIVER SHEEP-KIDNEY SHEEP-OTH ORGAN

PORK-OTH ORGAN

SHEEP-LEAN

53005FA

SHEEP-FAT

53005KA 53005BB 53003A 53002MA 53002LA 53002FA 5300288 53001MA 53001MA 53001MA 53001MA 53001LA 53001KA 53001FA 53001FA

53005BA

SHEEP-MEAT BYP

HORSE GOAT-LEAN

53002MA 53002KA 53002FA

GOAT-LEAN

GOAT-LIVER GOAT-KIDNEY GOAT-FAT BEEF-LEAN BEEF-LEAN BEEF-LEAN BEEF-LEAN BEEF-LIVER BEEF-LIVER BEEF-KIDNEY BEEF-FAT BEEF-FAT BEEF-FAT BEEF-FAT BEEF-FAT BEEF-FAT

GOAT-FAT

GOAT-OTH ORGAN

BEEF-LEAN

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53001BA 50000SA

53001BB 53001BA

BEEF-OTH ORGAN

BEEF-OTH ORGAN BEEF-MEAT BYP BEEF-MEAT BYP MILK SUG (LACT)

BEEF-DRIED

53001FA

53001FA

53001FA

53001FA

53001LA

53001MA

50000FA

MILK-FAT SOLIDS

MILK SUG (LACT)

MILK-FAT SOLIDS

50000SA



Table 1.

		The second secon	1000						
	CHEMICAL	STUDY TYPE	EFFECTS	TS	REFERENCE DOSES	SES	DATA GAPS/COMMENTS	MMENTS	STATUS
Fenami	Fenamiphos (Nemacur)	1yr feeding - dog NOEL= 0.0100 mg/kg	Plasma ChE inhibition		PADI UF>10 OPP RfD= 0.000	8	Chronic feeding-dog (current study may be up-	may be up-	HED complete 03/21/86 EPA verified 12/09/86
0.	CAS No. 22224-92-6				EPA RfD= 0.000250)250	graded)	•	WHO last reviewed 1987
>	.I. CODE: 100601	_				. i			HED complete 07/01/88
<u> </u>	CFR No. 180.349		No evidence of oncogenic-	oncogenic-		·		-	RfD/PR reviewed 05/20/93
	185.2950	12	ity in rats or mice.	mice.					On IRIS.
FOOD CODE	FOCO	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STAT	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED		P 0.050000	0.000120		STUDY	100.00	0.000120
53006FA	PORK-FAT	10 RAW-FRESH OR NES	9F2252	P 0.050000	0.000120		STUDY	100.00	h 000120
53006FA	PORK-FAT	23 COOKED-REPERHABILED	9F2252	P 0.050000	0.000120	FEEDING S	STUDY	100.00	0.000120
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	9F2252	P 0.050000	0.000120		STUDY	100.00	0.000120
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED, CORNED, OR CURED		P 0.050000	0.000120		STUDY	100.00	0.000120
53006KA	PORK-KIDNEY	21 COOKED-NFS	9F2252	P 0.050000	0.000120		STUDY		0.000
53006LA	PORK-LIVER	21 COOKED-NFS	9F2252	P 0.050000	0.000120			100.00	0.000.20
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	9F2252	P 0.050000	0.000120		YOUTS	100.00	0.000120
53006MA	PORK-LEAN	21 COOKED-NFS	9F2252	P 0.050000	0.000120	FEEDING S	YOUTS	100.00	0.00010
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	9F2252	P 0.050000	0.000120	FEEDING S	YOUTS	100.00	0.000120
				0 050000	0.000120	FEEDING S	STUDY	100.00	0.000120



RONIC ANALYSIS

DATE: 10/26/94

CHEMICAL INFORMATION
Fenamiphos (Nemacur)
Caswell #453A
CAS No. 22224-92-6
A.I. CODE: 100601
CFR No. 180.349
185.2950 STUDY TYPE

1yr feeding - dog

NOEL= 0.0100 mg/kg

0.50 ppm

LEL= 0.0300 mg/kg ONCO: E (RfD/PR Commitee) 1.00 ppm No evidence of oncogenic-ity in rats or mice. Plasma ChE inhibition **EFFECTS** REFERENCE DOSES
PADI UF -->100
OPP RfD= 0.000100
EPA RfD= 0.000250 DATA GAPS/COMMENTS
Chronic feeding-dog
(current study may be upgraded) STATUS

HED complete 03/21/86

EPA verified 12/09/86

WHO last reviewed 1987

HED complete 07/01/88

RfD/PR reviewed 05/20/93 On IRIS.

MALES (13-19 YEARS OLD) FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING) MALES (20 YEARS AND OLDER) FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	NURSING INFANTS (< 1 YEAR OLD) NON-NURSING INFANTS (< 1 YEAR OLD) FEMALES (13+ YEARS, PREGNANT) FEMALES 13+ YEARS, NURSING CHILDREN (7-12 YEARS OLD)	HISPANICS WON-HISPANIC WHITES WON-HISPANIC BLACKS WON-HISPANIC OTHERS	NORTHEAST REGION NORTH CENTRAL REGION SOUTHERN REGION - WESTERN REGION	U.S. POPULATION - SPRING SEASON U.S. POPULATION - SUMMER SEASON U.S. POPULATION - FALL SEASON U.S. POPULATION - WINTER SEASON	U.S. POPULATION - 48 STATES	POPULATION SUBGROUP
0.001706 0.001618 0.001275 0.001544	0.003645 0.007087 0.001670 0.001632 0.005706	0.002697 0.002063 0.002048 0.003011	0.002607 0.002079 0.001696 0.002214	0.002094 0.002001 0.002136 0.002215	0.002114	TOTAL TMRC (MG/KG BODY WEIGHT/DAY) CURRENT TMRC* NEW TMRC**
0.001707 0.001621 0.001276 0.001545	0.003645 0.007087 0.001673 0.001632 0.005709	0.002698 0.002065 0.002049 0.003016	0.002609 0.002080 0.001697 0.002216	0.002095 0.002002 0.002138 0.002218	0.002116	NEW THRC**
1706.816000 1620.990000 1275.609000 1545.216000	3644.908000 7086.536000 1673.442000 1631.621000 5709.493000 3070.107000	2697.600000 2064.636000 2048.997000 3016.128000	2609.091000 2079.809000 1696.676000 2215.955000	2094.765000 2002.063000 2137.786000 2218.277000	2115.731000	NEW TMRC AS PERCENT OF RFD
0.797000 2.541000 0.593000 1.076000	0.00000 0.00000 3.128000 0.00000 3.678000 2.239000	0.825000 1.467000 0.738000 5.565000	1.722000 1.080000 0.874000 2.327000	0.288000 0.634000 1.682000 2.986000	1.397000	DIFFERENCE AS PERCENT OF RFD
0.000008 0.000010 0.000008 0.000009	0.00014 0.00040 0.00010 0.00007 0.00007 0.000023 0.000016	0.000010 0.000011 0.00009 0.000027	0.000012 0.000010 0.000010 0.000013	0.000011 0.000011 0.000011 0.000012	0.000011	ARC XRFD
7.58400 9.67600 7.87600 9.11800	14.21400 40.14300 9.52100 6.92500 23.10200 15.88000	9.83800 11.30600 8.80200 27.01800	12.22400 10.44100 9.66300 13.18800	10.69900 #1.21000 10.66800 11.91500	11.26700	PATED RESIDUES ************************************

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

TOLERANCE ASSESSMENT SUMMARY FOR Fenamiphos (Nemacur) USING ANTICIPATED RESIDUES

DATE: 10/26/94

CASWELL #453A

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

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)

0.000010 RESULT IN AN ARC OF:

THE EXISTING ARC IS EQUIVALENT TO:

MG/KG/DAY % OF THE ADI. 9.809

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)

RESULT IN AN ARC OF:

0.000001

MG/KG/DAY

THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:

1.458

% OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY) 0.000011

ARE APPROVED THE RESULTANT ARC WILL BE:

MG/KG/DAY

THE NEW ARC WILL OCCUPY

% OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

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

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)

RESULT IN AN ARC OF:

0.000040

MG/KG/DAY

THE EXISTING ARC IS EQUIVALENT TO:

% OF THE ADI. 40.118

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)

RESULT IN AN ARC OF:

<0.000001

MG/KG/DAY

THESE NEW ANTICIPATED RESIDUES WILL OCCUPY:

% OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)

ARE APPROVED THE RESULTANT ARC WILL BE: THE NEW ARC WILL OCCUPY

0.000040 40.143

MG/KG/DAY % OF THE ADI.

NO OTHER PENDING ANTICIPATED RESIDUES ARE IN THE FILE

Acute Analysis for all Published RACS for RED

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Acute Analysis for all Published RACs for RED

10		00		w 0	0.0	=0	220	80	28 0	20	220	80	60	0.2	510	\$0	1000	TOLERANCES:
	20	¥ 3	- - - - - - - - - - - - - - - - - - -	THE RDV	OF RDV	M×282	2 <u>6</u> - 8		10/KG 800Y WEIGHT/DAY 0.000000 0.005909 WITH RESIDUE CONTRIBUTION 1 1.2 1.4 1.6 1.8	BODY WEIGHT/DAY 0.00000 0.005909 RESIDUE CONTRIB	800Y WEI 0.000000 0.005909 RESIDUE 1.2 1.4		VYS THAT ARE USER-DAYS 0.00 99.92 X OF POPULATION USER-DAYS 2 .4 .6 .8	ARE USER-DAYS PULATION USER-	AT ARE	VS THAT 0.00 99.92 % OF PO .2	PERSON DAYS THAT 0.00 0.99.92 ESTIMATED % OF POI 0 .2	ESTINATES BASED ON TOLERANCES: ANTICIPATED RESIDUES:
					ER-DAY	USER-	DN PER	RIBUTI	MEAN DAILY RESIDUE CONTRIBUTION PER US	RESIDU	DAILY	MEAN		LIAL	POTENT	X OF	ESTIMATED X OF POTENTIAL	CHILDREN(1-6 YRS)
+	00	00	0	,v.o	• •	20	230	%0	28 o	<u>۵</u> 0	¥°	% 0	420	480	57	70	100	TOLERANCES:
3	20	<u>*</u>	FOR	E ROV	OF RDV TIMES THE RDV, FOR X=	w×284	AS PERCENT 0.00 136.10 XCEEDING X	1.8 A.	/DAY TRIBUTI	WEIGHT 000 805 UE CON	MG/KG BODY WEIGHT/DAY 0.000000 0.006805 WITH RESIDUE CONTRIB 1 1.2 1.4 1.6	MG/KG	AYS THAT ARE USER-DAYS MG/KG BODY WEIGHT/DAY AS PERCEI 0.00 0.00 0.000000 0.000000 0.000000 136. 73.94 0.006805 136. 7 OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING 2 .4 .6 .8 1 1.2 1.4 1.6 1.8 2	USER-	THAT ARE USER-DAYS 0.00 03.94 POPULATION USER-	YS THAT 0.00 93.94 % OF PO .2	PERSON DAYS SESTIMATED X 0	ESTIMATES BASED ON TOLERANCES: ANTICIPATED RESIDUES:
				*	DAY	USER-	ON PER	N TUBIS	MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY	RESIDU	DAILY 1	HEAN		T A	POTENI	% 약	ESTIMATED % OF POTENTIAL	INFANTS(<1 YEAR)
90	00	00	00	00	-0	NO	~0	50	6.0	70	10 0	120	17	23 0	≈ 0	430	100 0	TOLERANCES: ANTICIPATED RESIDUES:
Mos	20	X= 15	RDV, FOR)	E ROV	OF RDV	m× 88 =	AS PERCENT 0.00 43.99 EXCEEDING X 3	m	/DAY TRIBUTI	BODY WEIGHT/DAY 0.000000 0.002200 RESIDUE CONTRIB	BODY WEI 0.000000 0.002200 RESIDUE 1.2 1.4	MG/KG	R-DAYS MG/KG BODY WEIGHT/DAY 0.000000 0.002200 0.002200 USER-DAYS WITH RESIDUE CONTRIBUTION 8 1 1.2 1.4 1.6 1.8	E USER-I	OPULAT	VS THAT AR 0.00 99.78 % OF POPUL .2 .4	PERSON DAYS THAT ARE USER-DAYS 0.00 99.78 estimated % of population user-	ESTIMATES BASED ON TOLERANCES: ANTICIPATED RESIDUES:
097					R-DAY	USER-	N PER	N TUBIT	MEAN DAILY RESIDUE CONTRIBUTION PER USE	NGI Say	DAILY I	MEAN		¥.	OF POTENTIAL	9	ESTIMATED %	U.S. POP48 STATES
	43 NO. * 1314 * 1314 *	Tuesday, October 25, 1994 43 ******************************** . LEV. CORE GRADE DOC. NO.* ymatic Minimum 0000001314* ymatic Minimum 0000001314* temic Minimum 0000001314* *********************************	RADE (mm (mm (mm (mm (mm (mm (mm (mm (mm (m	October 25	Tuesday, ******** . LEV. ymatic ymatic temic DATA:	SYS	15:57 SPECIES EFI Dog En: Rat Sy:	SPE	DAILY CONSUMPTION THE STUDY TYPE 10100 Chronic 10100 Chronic 10100 Reprodctn 10100 Reprodctn 10100 Reprodctn	SF STUDY TYP 000100 Chronic 000100 Chronic 000100 Reprodetn 3 of BODY WEIGHT	S' DAILY SF 000100 000100 000100 G of BU	ED ON USERS: DAILY CONSUMPTION ************************************	ALL STATISTICS BASED ON USERS! DAILY CONSUMPTION NET THE STUDY RDV NOEL SF STUDY TYPE A 00000.0003 000001.000 000100 Chronic B 00000.0150 000003.000 000100 Chronic C 00000.0150 000030.000 000100 Reprodeth analysis is 0.005 MG/KG of BODY WEIGHT/DA	71STICS BA ************************************	STUDY A 000 D1 B 000 C 000 alysis is	3: ALL ST 349 100601 is analy	INCLUDING AR'S: ALL STATIST ***********************************	DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION 15: ************************************

(14)

Acute Analysis for all Published RACs for RED

ANTICIPATED RESIDUES:	ESTIMATES BASED ON TOLERANCES: ANTICIPATED RESIDUES:	MALES(13+ YRS)	TOLERANCES:	ESTIMATES BASED ON TOLERANCES: ANTICIPATED RESIDUES:	FEMALES(13+ YRS)	DETAILED ACUTE ANALYSIS INCLUDING AR'S: ALL STATISTICS BASED ON USERS' DAILY CONSUMPTION ************************************
100	PERSON DAYS THAT ARE USER-DAYS NG/KG BODY WEIGHT/DAY AS PERCEN 0.00 0.00 0.00 0.000000 28.1 65.1 MATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING 0.2.4.6.8.1 1.2 1.4 1.6 1.8 2	ESTIMATED % OF POTENTIAL	1000	PERSON DAYS THAT ARE USER-DAYS MG/KG BODY WEIGHT/DAY AS PERCEN 0.00 0.000000 32.0 0.001605 ESTIMATED % OF POPULATION USER-DAYS WITH RESIDUE CONTRIBUTION EXCEEDING 0.2.4.6.8.1.1.2.1.4.1.6.1.8.2	ESTIMATED % OF POTENTIAL	INCLUDING AR'S: ACUR) CFR NO: CFR180.349 AACUR) AACUR IAUGHNESSY NO: 1004 ALUE used in this and the Used-
37	× 99.	% OF	39 0	YS THAT 0.00 99.80 % OF POI	% 9	ALL S S 00601 anal- dWi
80	IAT ARE	POTENT	29 0	THAT ARE U	POTENT	LL STATIST ********* ********* STUDY STUDY A 0000 O1 B 0000 C 0000 C 0000 C 0000 Alysis is *********************************
ಕಂ	USER-I	Ē	200	JSER-C	2	RDV
5 0	DAYS SER-DAYS		130	AYS SER-DAYS		TISTICS BASED ON USERS' DAILY CONSUMPT WARREST PRICE CONSUMPT WARREST PRICE CONSUMPT
50	MG/KG NITH	MEAN	& O	HTTH HTTH	MEAN (USERS 1.000 0.000 MG/KC
wo	BODY WEI 0.000000 0.001417 RESIDUE 1.2 1.4	DAILY	20	BODY WEI 0.000000 0.001605 RESIDUE 1.2 1.4	AILY	SF 00010 00010 00010
20	MG/KG BODY WEIGHT/DAY 0.00000 0.001417 0.001417 WITH RESIDUE CONTRIB 1 1.2 1.4 1.6	RESID	40	MG/KG BODY WEIGHT/DAY 0.00000 0.001605 0.01605 WITH RESIDUE CONTRIB 1 1.2 1.4 1.6	RESIDL	SF STUDY T 000100 Chronic 000100 Chronic 000100 Reprodc of BODY WEIG
-0	1/DAY NTRIBUT	MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY	20	T/DAY VIRIBUT	MEAN DAILY RESIDUE CONTRIBUTION PER USER-DAY	W USERS' DAILY CONSUMPTION 15:57 ***********************************
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00	OF RDV	-DAY	00	OF RDV	DAY	Tuesday ******** F. LEV. Zymatic Zymatic Stemic ************************************
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