

US EPA ARCHIVE DOCUMENT



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

MAR 27 1987

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: TAS Analysis of Section 18 Request For Fenoxycarb.  
EPA Reg. No. 35977-4; 87-AZ-03; Caswell #652C.

TO: Don Stubbs, Head  
Emergency Response and Minor Use Branch  
Registration Division (TS-767C)

FROM: ~~D. Stephen Saunders, Ph.D.~~  
Acting Program Manager, TAS  
Hazard Evaluation Division (TS-769C) *DSJ 3/26/87*

THRU: Charles L. Trichilo, Ph.D.  
Chief, Residue Chemistry Branch  
Hazard Evaluation Division (TS-769C) *[Signature]*

Action Requested

Provide an analysis by the Tolerance Assessment System for the impact of the proposed use of Fenoxycarb on citrus and cattle feed. Tolerances of 0.05 ppm in citrus, and 0.1 ppm in milk are requested (LOD). A maximum likely residue of 0.02 ppm was used to estimate exposure to milk (memo Metzger to Stubbs, 2-6-87).

Recommendations

The Reference Dose (RfD, RDV, PADI) used in the analysis was 0.01 mg/kg/day. This value has not been verified by the appropriate Agency RfD committees.

The requested use would result in an estimated TMRC for the U.S. population of 0.0003 mg/kg/day, which is equivalent to 3.3% of the PADI. The most exposed subgroup would be non-nursing infants, whose estimated TMRC would be 0.0016 mg/kg/day, equivalent to 15.6% of the PADI. A summary of the analysis is appended.

ATTACHMENT

cc: TAS file  
Reading file  
circ.  
D. Van Ormer (TOX)

PMSD  
Fenoxycarb SF  
S. Rathman (TOX)  
Section 18 SF

ROUTINE CHRONIC ANALYSIS: ALL STATISTICS BASED ON INDIVIDUALS' 3-DAY AVERAGE CONSUMPTION 12:51 THURSDAY, MARCH 26, 1987 1

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 \*NAME: FENOXYCARB  
 \*CASWELL NO: 652C CFR NO: CFR  
 \*CAS NO: 79127-80-3 SHAUGHNESSY NO: 125301 B  
 \*STATUS CODES:  
 \*RDV INFO: The ADI value used in this analysis is 00000.0100 MG/KG of BODY WEIGHT/DAY (Study A - Provisional)  
 \*FILE INFO: NEW ACTION: User Modifications APPROVED:Data NOT Used PUBLISHED:Data NOT Used  
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SUMMARY BY POPULATION SUBGROUP

	STUDY	RDV	NOEL	SF	STUDY TYPE	SPECIES	EFF. LEV.	CORE GRADE	DOC. NO.
	A	00000.0100	000200.000	001000	Subchronic	Rat	Systemic	Supplement	*
	B				Subchronic	Dog			*
	C				Terata	Rat			*

	TOTAL TMRC ADJUSTED FOR BODY WEIGHT (MG/KG BODY WEIGHT/DAY)	NEW TMRC (EXCLUDES NEW ACTION)	AS PERCENT OF RDV	NEW TMRC (INCLUDES NEW ACTION)	AS PERCENT OF RDV	DIFFERENCE (NEW TMRC - PRIOR TMRC)	DIFFERENCE AS PERCENT OF RDV	DIFFERENCE AS PERCENT OF PRIOR TMRC
U.S. POP. --48 STATES--ALL SEASONS	0.000000	0.000331	3.312	0.000331	3.312	0.000331	3.312	.
U.S. POPULATION--SPRING SEASON	0.000000	0.000317	3.166	0.000317	3.166	0.000317	3.166	.
U.S. POPULATION--SUMMER SEASON	0.000000	0.000318	3.178	0.000318	3.178	0.000318	3.178	.
U.S. POPULATION--FALL SEASON	0.000000	0.000343	3.426	0.000343	3.426	0.000343	3.426	.
U.S. POPULATION--WINTER SEASON	0.000000	0.000348	3.479	0.000348	3.479	0.000348	3.479	.
NORTHEAST REGION	0.000000	0.000375	3.747	0.000375	3.747	0.000375	3.747	.
NORTH CENTRAL REGION	0.000000	0.000339	3.389	0.000339	3.389	0.000339	3.389	.
SOUTHERN REGION	0.000000	0.000276	2.760	0.000276	2.760	0.000276	2.760	.
WESTERN REGION	0.000000	0.000357	3.571	0.000357	3.571	0.000357	3.571	.
HISPANICS	0.000000	0.000433	4.334	0.000433	4.334	0.000433	4.334	.
NON-HISPANIC WHITES	0.000000	0.000326	3.261	0.000326	3.261	0.000326	3.261	.
NON-HISPANIC BLACKS	0.000000	0.000307	3.067	0.000307	3.067	0.000307	3.067	.
NON-HISPANICS OTHER THAN BLACKS & WHITES	0.000000	0.000414	4.142	0.000414	4.142	0.000414	4.142	.
NURSING INFANTS (<1 YEAR OLD)	0.000000	0.000398	3.984	0.000398	3.984	0.000398	3.984	.
NON-NURSING INFANTS (<1 YEAR OLD)	0.000000	0.001557	15.573	0.001557	15.573	0.001557	15.573	.
FEMALES(13+,PREGNANT, NOT NURSING)	0.000000	0.000251	2.511	0.000251	2.511	0.000251	2.511	.
FEMALES(13+,NURSING)	0.000000	0.000290	2.902	0.000290	2.902	0.000290	2.902	.
CHILDREN(1-6 YRS)	0.000000	0.000947	9.472	0.000947	9.472	0.000947	9.472	.
CHILDREN(7-12 YRS)	0.000000	0.000553	5.535	0.000553	5.535	0.000553	5.535	.
MALES(13-19 YRS)	0.000000	0.000331	3.311	0.000331	3.311	0.000331	3.311	.
FEMALES(13-19 YRS,NOT PREG. OR NURSING)	0.000000	0.000272	2.721	0.000272	2.721	0.000272	2.721	.
MALES(20+ YRS)	0.000000	0.000182	1.823	0.000182	1.823	0.000182	1.823	.
FEMALES(20+ YRS,NOT PREG. OR NURSING)	0.000000	0.000193	1.928	0.000193	1.928	0.000193	1.928	.

CASWELL NO.:652C NAME:FENOXYCARB  
 CFR NO.:CFR180. CAS NO.:79127-80-3  
 SHAUGHNESSY NO.: 125301  
 OTHER NAMES:  
 LOGIC  
 ETHYL-2-P-PHENOXYPHENOXY  
 ETHYLCARBAMATE  
 RO-13-5223C

STATUS CODES: RPAR:  
 RS:  
 IBC:  
 STATUS1:  
 STATUS2:

PESTICIDE TYPES  
 INSECTICIDE: YES  
 FUNGICIDE:  
 NEMATOCIDE:  
 HERBICIDE:  
 RODENTICIDE:  
 BIOLOGICAL:  
 PHEROMONE:  
 GROWTH REG.:  
 BACTERIOCIDE:  
 FUNIGANT:  
 ACARICIDE:  
 OTHER:

USAGE PATTERNS  
 TERRESTRIAL-FOOD: YES  
 NON-FOOD: YES  
 AQUATIC-FOOD:  
 NON-FOOD:  
 GREENHOUSE-FOOD:  
 NON-FOOD:  
 FORESTRY:  
 DOMESTIC-OUTDOOR:  
 INDOOR:

STUDY A STUDY B STUDY C  
 SUBCHRONIC SUBCHRONIC TERATA  
 RAT DOG RAT  
 STUDY TYPE:  
 SPECIES:  
 DATE(M/D/Y):  
 NOEL OR Q\*(PPM): 200.000  
 NOEL(MG/KG): 10.000 150.000 150.000  
 LEL:  
 SF OR MODEL NO.: 1000  
 RDV(MG/KG/DAY): 0.0100  
 PROVISIONAL RDV: YES  
 EFFECT LEVEL: SYSTEMIC  
 CORE GRADE: SUPPLEMNTL  
 DOCUMENT NO.:

COMMENTS:PADI BASED INTERIM RPT OF CHRONIC RAT STUDY