



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

MAR 16 1988

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

Subject: 88-ND-02. Tolerance Assessment on a Section 18 Exemption
for Fenoxaprop-ethyl (Whip) on Wheat. RCB # 3426.

From: Charles Frick
Tolerance Assessment Program
Residue Chemistry Branch, HED

e. Frick 3/11/88

Thru: Karl Arne Ph.D. *[Signature]*
Branch Senior Scientist
Residue Chemistry Branch, HED

To: D. Stubbs/E.Asbury, PM # 41
Registration Support Branch
Registration Division

The Tolerance Assessment System (TAS) has been requested to perform a tolerance assessment for a residue level of 0.05 ppm on wheat. This tolerance value has been approved by RCB (memo. L. Cheng 3/9/88).

Permanent tolerances for Fenoxaprop-ethyl have been established for rice grain and soybeans, CFR 180.430.

TOLERANCE ASSESSMENT

CHEMICAL: FENOXAPROP- ETHYL

1. The acceptable Daily Intake (ADI) for this chemical is 0.0025 mg/kg/day, and has been approved by the Toxicology Branch Reference Dose Committee, 12/12/86.
2. The food uses evaluated by the Tolerance Assessment System (TAS) are the Section 18 exemption for Fenoxaprop-ethyl on wheat and existing tolerances of Fenoxaprop-ethyl. A list of these tolerances is appended.
3. The TAS analysis estimates dietary exposure for the U.S. population average and for each of 22 subgroups. The theoretical dietary exposure of Fenoxaprop-ethyl expressed as percent of the ADI ranged from a low of 2.5% to a high of 8.2% (see page 1 in tables).

ATTACHMENT

cc. Reading File
Fenoxaprop-ethyl SF
TAS File
S. Rathman (TOX)
C. Frick (RCB)
PMS D

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 03/09/88

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CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			ADI	OPP RfD = 0.002500		
Fenoxaprop-ethyl (Mhip)	2gen reprod. - rat	Decreased total blood lipids and cholesterol	100	EPA RfD = 0.000000	No data gaps.	TOX complete 12/12/86.
Caswell #431C	NOEL = 0.2500 mg/kg	in Fl.				ORD postponed 9/16/87.
CAS No. 66441-23-4	5.00 ppm					
A.I. CODE: 128701	1.5000 mg/kg	No evidence of oncogeni-				
CFR No. 180.	30.00 ppm	city in rats or mice.	WHO RfD 0.000000			
ONCO: Negative- 2 species.						
Type:						
POPULATION SUBGROUP	TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		NEW TMRC		DIFFERENCE	
	CURRENT TMRC*	NEW TMRC**	AS PERCENT OF RFD	AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES	
U.S. POPULATION - 48 STATES	0.000025	0.000095	3.818120	2.821640	APC	
U.S. POPULATION - SPRING SEASON	0.000024	0.000092	3.694160	2.739840	%RFD	
U.S. POPULATION - SUMMER SEASON	0.000025	0.000094	3.748400	2.742800		
U.S. POPULATION - FALL SEASON	0.000026	0.000099	3.945720	2.913760		
U.S. POPULATION - WINTER SEASON	0.000025	0.000097	3.884440	2.890240		
NORTHEAST REGION	0.000025	0.000099	3.962400	2.944080		
NORTH CENTRAL REGION	0.000022	0.000096	3.834200	2.935200		
SOUTHERN REGION	0.000025	0.000092	3.698160	2.692840		
WESTERN REGION	0.000027	0.000095	3.807840	2.713440		
HISPANICS	0.000038	0.000106	4.227600	2.700600		
NON-HISPANIC WHITES	0.000023	0.000095	3.796520	2.881080		
NON-HISPANIC BLACKS	0.000028	0.000091	3.640760	2.510480		
NON-HISPANICS OTHER	0.000055	0.000123	4.903240	2.684840		
NURSING INFANTS (<1 YEAR OLD)	0.000050	0.000071	2.844600	0.841680		
NON-NURSING INFANTS (<1 YEAR OLD)	0.000148	0.000199	7.969480	2.063640		
FEMALES (13+ YEARS, PREGNANT)	0.000017	0.000068	2.724560	2.044860		
FEMALES 13+ YEARS, NURSING	0.000021	0.000085	3.397400	2.542200		
CHILDREN (1-6 YEARS OLD)	0.000048	0.000205	8.219800	6.309120		
CHILDREN (7-12 YEARS OLD)	0.000035	0.000150	5.999760	4.614920		
MALES (13-19 YEARS OLD)	0.000024	0.000107	4.271920	3.304240		
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.000021	0.000083	3.338600	2.518120		
MALES (20 YEARS AND OLDER)	0.000020	0.000077	3.065200	2.245880		
FEMALES (20 YEARS AND OLDER)	0.000017	0.000063	2.522080	1.855760		

*Current TMRC does not include new or pending tolerances.

**New TMRC includes new, pending, and published tolerances.

CHEMICAL INFORMATION FOR CASWELL NUMBER 431C

DATE: 03/09/88

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Fenoxaprop-ethyl (Whip)	2gen reprod. - rat	Decreased total blood lipids and cholesterol in Fl.	ADI 100	No data gaps.	TOX complete 12/12/86.
Caswell #431C	NOEL= 0.2500 mg/kg		OPR RfD= 0.002500		ORD postponed 9/16/87.
CAS No. 66441-23-4	5.00 ppm		EPA RfD= 0.000000		
A.I. CODE: 128701	LEI= 1.5000 mg/kg	No evidence of oncogenicity in rats or mice.	WHO RfD 0.000000		
CFR No. 180.	30.00 ppm		Type:		
	ONCO: Negative- 2 species.				

FOOD CODE	FOOD NAME	PETITION NUMBER	NEW	TOLERANCE (PPM)	PENDING	PUBLISHED
15029AA	SOYBEANS-SPROUTED SEEDS					
24004AA	RICE-ROUGH			0.050000		
24004AB	RICE-MILLED			0.050000		
24007AA	WHEAT-ROUGH	88ND02		0.050000		
24007GA	WHEAT-GERM	88ND02		0.050000		
24007HA	WHEAT-BRAN	88ND02		0.050000		
24007WA	WHEAT-FLOUR	88ND02		0.050000		
270100A	SOYBEANS-OIL					
28023AA	SOYBEANS-UNSPECIFIED			0.050000		
28023AB	SOYBEANS-MATURE, SEEDS DRY			0.050000		
28023WA	SOYBEANS-FLOUR, FULL FAT			0.050000		
28023WB	SOYBEANS-FLOUR, LOW FAT			0.050000		
28023WC	SOYBEANS-FLOUR, DEFATTED			0.050000		