

7-21-89

NOTE TO: Jim Tompkins

SUBJECT: TAS Analysis for Section 18 Request 89-OR-21

FROM: J. R. Tomerlin, TAS Staff

J. R. Tomerlin 7/21/89

This Section 18 request for the use of oxyfluorfen (Goal) on Kentucky bluegrass, perennial ryegrass, and fine fescues is not expected to result in secondary residues in meat and milk that exceed published tolerances for oxyfluorfen (J. S. Smith memo, 7/18/89). Consequently, a new analysis for this Section 18 is not required. A TAS analysis for published tolerances only is attached for your convenience.

CHEMICAL INFORMATION FOR CASWELL NUMBER 188AAA

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			ADI	UF		
Oxyfluorfen (Goal)	20mo feeding- mice	Necrosis, hyperplastic nodules in liver,		-->100	No data gaps.	HED complete 04/14/86.
Caswell #188AAA	NOEL= 0.3000 mg/kg	increased liver weights.	OPP RfD= 0.003000		Mouse most sensitive species.	EPA verified 06/10/86.
CAS No. 42874-03-3	2.00 ppm		EPA RfD= 0.003000			
A.I. CODE: 111601	LEI= 3.0000 mg/kg	Not oncogenic in rat and mouse.				
CFR No. 180.381	20.00 ppm					On IRIS.
	ONCO: Negative- 2 species.					

FOOD CODE	FOOD NAME	PETITION NUMBER	TOLERANCE (PPM)	
			PENDING	PUBLISHED
01014AA	GRAPES-FRESH	9F2197		0.050000
01014DA	GRAPES-RAISINS	9F2197		0.050000
01014JA	GRAPES-JUICE	9F2197		0.050000
03001AA	ALMONDS	4F3119		0.050000
03002AA	BRAZIL NUTS	4F3119		0.050000
03003AA	CASHEWS	4F3119		0.050000
03004AA	CHESTNUTS	4F3119		0.050000
03005AA	FILBERTS, HAZELNUTS	4F3119		0.050000
03006AA	HICKORY NUTS	4F3119		0.050000
03007AA	MACADAMIA NUTS (BUSH NUTS)	4F3119		0.050000
03008AA	PECANS	4F3119		0.050000
03009AA	WALNUTS	4F3119		0.050000
03010AA	BUTTER NUTS	4F3119		0.050000
03011AA	PISTACHIO NUTS	1F2488		0.050000
03013AA	BEECHNUTS	4F3115		0.050000
04001AA	APPLES-FRESH	4F3115		0.050000
04001DA	APPLES-DRIED	4F3115		0.050000
04001JA	APPLES-JUICE	4F3115		0.050000
04002AA	CRABAPPLES	4F3115		0.050000
04003AA	PEARS-FRESH	4F3115		0.050000
04003DA	PEARS-DRIED	4F3115		0.050000
04004AA	QUINCES	4F3115		0.050000
05001AA	APRICOTS-FRESH	4F3115		0.050000
05001DA	APRICOTS-DRIED	4F3115		0.050000
05002AA	CHERRIES-FRESH	4F3115		0.050000
05002DA	CHERRIES-DRIED	4F3115		0.050000
05002JA	CHERRIES-JUICE	4F3115		0.050000
05003AA	NECTARINES	4F3115		0.050000
05004AA	PEACHES-FRESH	4F3115		0.050000
05004DA	PEACHES-DRIED	4F3115		0.050000
05005AA	PLUMS (DAMSONS)-FRESH	4F3115		0.050000
05005DA	PLUMS-PRUNES (DRIED)	4F3115		0.050000
05005JA	PLUMS, PRUNE-JUICE	4F3115		0.050000
06001AA	AVOCADOS	4F3117		0.050000
06002AA	BANANAS-UNSPECIFIED	2E2693		0.050000
06002AB	BANANAS-FRESH	2E2693		0.050000
06002DA	BANANAS-DRIED	2E2693		0.050000
06004AA	DATES	4F3117		0.050000
06005AA	FIGS	1F2549		0.050000
06006AA	GUAVA	6E3396		0.050000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Oxyfluorfen (Goal)	20mo feeding- mice	Necrosis, hyperplastic	ADI UF -->100	No data gaps.	HED complete 04/14/86.
Caswell #188AAA	NOEL= 0.3000 mg/kg	nodules in liver,	OPP RfD= 0.003000	Mouse most sensitive	EPA verified 06/10/86.
CAS No. 42874-03-3	2.00 ppm	increased liver weights.	EPA RfD= 0.003000	species.	
A.I. CODE: 111601	LEL= 3.0000 mg/kg	Not oncogenic in rat and			
CFR No. 180.381	20.00 ppm	mouse.			
	ONCO: Negative- 2 species.				On IRIS.

FOOD CODE	FOOD NAME	PETITION NUMBER	NEW	TOLERANCE (PPM)	PUBLISHED
06008AA	LOQUATS	4F3115		0.050000	
06009AA	OLIVES	4F3117		0.050000	
06015AA	POMEGRANATES	4F3117		0.050000	
06016AA	PLANTAINS	2E2693		0.050000	
06018AA	KIWI	4F3117		0.050000	
07002AA	COFFEE	2E2693		0.050000	
13005AA	BROCCOLI	5E3269		0.050000	
13007AA	CABBAGE-GREEN AND RED	5E3269		0.050000	
13008AA	CAULIFLOWER	5E3269		0.050000	
13010AA	CABBAGE-CHINESE/CELERY, INC. BOK CHOY	5E3269		0.050000	
13018AA	ARTICHOKES-GLOBE	4F3118		0.050000	
14007AA	GARLIC	3F2859		0.050000	
14011AA	ONIONS-DRY-BULB (CIPOLLINI)	3F2859		0.050000	
14011DA	ONIONS-DEHYDRATED OR DRIED	3F2859		0.050000	
14017AA	SHALLOTS	3F2859		0.050000	
15029AA	SOYBEANS-SPROUTED SEEDS	8F2058		0.050000	
24002EA	CORN, GRAIN-ENDOSPERM	8F2058		0.050000	
24002HA	CORN, GRAIN-BRAN	8F2058		0.050000	
24002SA	CORN SUGAR	8F2058		0.050000	
270020A	CORN, GRAIN-OIL	8F2058		0.050000	
270030A	COTTONSEED-OIL	1H5296		0.250000	H
27003WA	COTTONSEED-WEAL	1F2488		0.050000	
270100A	SOYBEANS-OIL	1H5296		0.250000	H
270160A	OLIVE OIL	4F3117		0.050000	
28023AA	SOYBEANS-UNSPECIFIED	8F2058		0.050000	
28023AB	SOYBEANS-MATURE, SEEDS DRY	8F2058		0.050000	
28023WA	SOYBEANS-FLOUR, FULL FAT	8F2058		0.050000	
28023WB	SOYBEANS-FLOUR, LOW FAT	8F2058		0.050000	
28023WC	SOYBEANS-FLOUR, DEFAITED	8F2058		0.050000	
280800A	PEPPERMINT-OIL	1H5296		0.250000	H
280810A	SPERMINT-OIL	1H5296		0.250000	H
500000B	MILK-NON-FAT SOLIDS	9F2197		0.050000	
50000FA	MILK-FAT SOLIDS	9F2197		0.050000	
50000SA	MILK SUGAR (LACTOSE)	9F2197		0.050000	
53001BA	BEEF-MEAT BYPRODUCTS	9F2197		0.050000	
53001BB	BEEF (ORGAN MEATS)-OTHER	9F2197		0.050000	
53001DA	BEEF-DRIED	9F2197		0.050000	
53001FA	BEEF (BONELESS)-FAT (BEEF TALLOW)	9F2197		0.050000	
53001KA	BEEF (ORGAN MEATS)-KIDNEY	9F2197		0.050000	
53001LA	BEEF (ORGAN MEATS)-LIVER	9F2197		0.050000	

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES			DATA GAPS/COMMENTS	STATUS
			ADI	UF	-->100		
Oxyfluorfen (Goal)	20mo feeding- mice	Necrosis, hyperplastic nodules in liver, increased liver weights.	OPF RfD= 0.003000			No data gaps.	HED complete 04/14/86.
Caswell #188AAA	NOEL= 0.3000 mg/kg		EPA RfD= 0.003000			Mouse most sensitive species.	EPA verified 06/10/86.
CAS No. 42874-03-3	2.00 ppm						
A.I. CODE: 111601	LEL= 3.0000 mg/kg	Not oncogenic in rat and mouse.					
CFR No. 180.381	20.00 ppm						
	ONCO: Negative- 2 species.						On IRIS.

FOOD CODE	FOOD NAME	PETITION NUMBER	TOLERANCE (PPM)	
			NEW	PUBLISHED
53001MA	BEEF (BONELESS)-LEAN (W/O REMOVEABLE FAT)	9F2197		0.050000
53002BA	GOAT-MEAT BYPRODUCTS	9F2197		0.050000
53002BB	GOAT(ORGAN MEATS)-OTHER	9F2197		0.050000
53002FA	GOAT(BONELESS)-FAT	9F2197		0.050000
53002KA	GOAT(ORGAN MEATS)-KIDNEY	9F2197		0.050000
53002LA	GOAT(ORGAN MEATS)-LIVER	9F2197		0.050000
53002MA	GOAT(BONELESS)-LEAN (W/O REMOVEABLE FAT)	9F2197		0.050000
53003AA	HORSE	9F2197		0.050000
53005BA	SHEEP-MEAT BYPRODUCTS	9F2197		0.050000
53005BB	SHEEP(ORGAN MEATS)-OTHER	9F2197		0.050000
53005FA	SHEEP(BONELESS)-FAT	9F2197		0.050000
53005KA	SHEEP(ORGAN MEATS)-KIDNEY	9F2197		0.050000
53005LA	SHEEP(ORGAN MEATS)-LIVER	9F2197		0.050000
53005MA	SHEEP(BONELESS)-LEAN (W/O REMOVEABLE FAT)	9F2197		0.050000
53006BA	PORK-MEAT BYPRODUCTS	9F2197		0.050000
53006BB	PORK(ORGAN MEATS)-OTHER	9F2197		0.050000
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD)	9F2197		0.050000
53006KA	PORK(ORGAN MEATS)-KIDNEY	9F2197		0.050000
53006LA	PORK(ORGAN MEATS)-LIVER	9F2197		0.050000
53006MA	PORK(BONELESS)-LEAN (W/O REMOVEABLE FAT)	9F2197		0.050000
55008BA	TURKEY-BYPRODUCTS	9F2197		0.050000
55008LA	TURKEY-GIBLETS (LIVER)	9F2197		0.050000
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES)	9F2197		0.050000
55008MB	TURKEY-FLESH(+SKIN, W/O BONES)	9F2197		0.050000
55008MC	TURKEY-UNSPECIFIED	9F2197		0.050000
55013BA	POULTRY, OTHER-BYPRODUCTS	9F2197		0.050000
55013LA	POULTRY, OTHER-GIBLETS(LIVER)	9F2197		0.050000
55013MA	POULTRY, OTHER-FLESH (+SKIN, W/O BONES)	9F2197		0.050000
55014AA	EGGS-WHOLE	9F2197		0.050000
55014AB	EGGS-WHITE ONLY	9F2197		0.050000
55014AC	EGGS-YOLK ONLY	9F2197		0.050000
55015BA	CHICKEN-BYPRODUCTS	9F2197		0.050000
55015LA	CHICKEN-GIBLETS(LIVER)	9F2197		0.050000
55015MA	CHICKEN-FLESH(W/O SKIN, W/O BONES)	9F2197		0.050000
55015MB	CHICKEN-FLESH(+SKIN, W/O BONES)	9F2197		0.050000

DATE: 07/19/89

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

CHEMICAL INFORMATION		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Oxyfluorfen (Goal)		20mo feeding- mice		Necrosis, hyperplastic		ADI UF -->100		No data gaps.		HED complete 04/14/86.	
Caswell #188AAA		NOEL= 0.3000 mg/kg		nodules in liver,		OPP RfD= 0.003000		Mouse most sensitive		EPA verified 06/10/86.	
CAS No. 42874-03-3		2.00 ppm		increased liver weights.		EPA RfD= 0.003000		species.			
A.I. CODE: 111601		LEL= 3.0000 mg/kg		Not oncogenic in rat and							
CFR No. 180.381		20.00 ppm		mouse.							
		ONCO: Negative- 2 species.								On IRIS.	

TOTAL TMRC (MG/KG BODY WEIGHT/DAY)

	CURRENT TMRC*		NEW TMRC**		NEW TMRC AS PERCENT OF RFD		DIFFERENCE AS PERCENT OF RFD		EFFECT OF ANTICIPATED RESIDUES	
									ARC	
POPULATION SUBGROUP										
U.S. POPULATION - 48 STATES	0.000902	0.000902	0.000902	0.000902	30.082633	0.000000	0.000000	0.000000		
U.S. POPULATION - SPRING SEASON	0.000850	0.000850	0.000850	0.000850	28.336833	0.000000	0.000000	0.000000		
U.S. POPULATION - SUMMER SEASON	0.000896	0.000896	0.000896	0.000896	29.879567	0.000000	0.000000	0.000000		
U.S. POPULATION - FALL SEASON	0.000938	0.000938	0.000938	0.000938	31.268433	0.000000	0.000000	0.000000		
U.S. POPULATION - WINTER SEASON	0.000925	0.000925	0.000925	0.000925	30.822200	0.000000	0.000000	0.000000		
NORTHEAST REGION	0.000925	0.000925	0.000925	0.000925	30.827433	0.000000	0.000000	0.000000		
NORTH CENTRAL REGION	0.000916	0.000916	0.000916	0.000916	30.544067	0.000000	0.000000	0.000000		
SOUTHERN REGION	0.000814	0.000814	0.000814	0.000814	27.135233	0.000000	0.000000	0.000000		
WESTERN REGION	0.001004	0.001004	0.001004	0.001004	33.480000	0.000000	0.000000	0.000000		
HISPANICS	0.001119	0.001119	0.001119	0.001119	37.299533	0.000000	0.000000	0.000000		
NON-HISPANIC WHITES	0.000898	0.000898	0.000898	0.000898	29.925533	0.000000	0.000000	0.000000		
NON-HISPANIC BLACKS	0.000818	0.000818	0.000818	0.000818	27.268133	0.000000	0.000000	0.000000		
NON-HISPANIC OTHERS	0.000998	0.000998	0.000998	0.000998	33.260967	0.000000	0.000000	0.000000		
NURSING INFANTS (< 1 YEAR OLD)	0.001406	0.001406	0.001406	0.001406	46.865333	0.000000	0.000000	0.000000		
NON-NURSING INFANTS (< 1 YEAR OLD)	0.004583	0.004583	0.004583	0.004583	152.770333	0.000000	0.000000	0.000000		
FEMALES (13+ YEARS, PREGNANT)	0.000633	0.000633	0.000633	0.000633	21.093933	0.000000	0.000000	0.000000		
FEMALES 13+ YEARS, NURSING	0.000805	0.000805	0.000805	0.000805	26.845367	0.000000	0.000000	0.000000		
CHILDREN (1-6 YEARS OLD)	0.002369	0.002369	0.002369	0.002369	78.961233	0.000000	0.000000	0.000000		
CHILDREN (7-12 YEARS OLD)	0.001466	0.001466	0.001466	0.001466	48.873833	0.000000	0.000000	0.000000		
MALES (13-19 YEARS OLD)	0.000939	0.000939	0.000939	0.000939	31.284767	0.000000	0.000000	0.000000		
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.000744	0.000744	0.000744	0.000744	24.785567	0.000000	0.000000	0.000000		
MALES (20 YEARS AND OLDER)	0.000574	0.000574	0.000574	0.000574	19.120800	0.000000	0.000000	0.000000		
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)	0.000516	0.000516	0.000516	0.000516	17.190267	0.000000	0.000000	0.000000		

*Current TMRC does not include new or pending tolerances.

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

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