

US EPA ARCHIVE DOCUMENT



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

SEP 1 1987

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

Subject: Myclobutanil (Rally) Tolerance Assessment System Tolerance Assessment. ID Numbers, 7G3479 and 7H5523. Action Code 244 and 264.

To: Lois Rossi/Schnaubelt, PM# 21  
Registration Division  
and  
Toxicology Branch

From: Charles Frick *e. Frick 8/28/87*  
Tolerance Assessment Program  
Residue Chemistry Branch, HED

Thru: Charles L. Trichilo, Ph.D.  
Chief, Residue Chemistry Branch  
Hazard Evaluation Division

Rohm and Haas Company has submitted petitions on the fungicide Myclobutanil (Rally), requesting temporary tolerances for processed commodities of apples and grapes, as well as for meat, milk, and eggs. These would allow removal of a fresh market restriction from the EUP labels and permit processing of damaged apples and grapes. RCB has concluded that previous data deficiencies have been resolved and toxicological considerations permitting, it can recommend for the establishment of the following temporary tolerances for residues of Myclobutanil and its metabolites containing both the chlorophenyl and triazole rings in/on the following: apple pomace 5 ppm, grape pomace 5 ppm, raisins 5 ppm, raisin waste 15 ppm, and meat, fat, and meat by-products (except liver) of cattle, goats, hogs, horses, and sheep at 0.2 ppm, also, milk 0.02 ppm, eggs, meat, fat, and meat by-products of poultry at 0.02 ppm. RCB has considered the established temporary tolerances of 0.5 ppm for the RACs apples and grapes, to be adequate (memo. R. Loranger, 8/13/87).

The Tolerances Assessment System (TAS) has been requested to perform a tolerance assessment on the theoretical dietary exposure of Rally that would result from the implementation of the requested temporary tolerances.

The TAS analysis estimates dietary exposure for the U.S. population average and for each of 22 subgroups. The TMRC for the U.S. population was calculated as 0.0009 mg/kg/day, which is equivalent to 294% of the PADI. The subgroups calculated to have the highest dietary exposure were non-nursing infants (0.0056 mg/kg/day, which is equivalent to 1873 % of the PADI) and nursing infants (0.0034 mg/kg/day, equivalent to 1120% of the PADI). For commodity contribution of selected RACs to the Myclobutanil ADI and TMRC, see tables 1 thru 3.

### Discussion

The PADI used in this TAS analysis was 0.0003 mg/kg/day. This value was based on a NOEL of 0.3 mg/kg/day observed in a 90 day dog study with a safety factor of 1000. This value was approved by the Toxicology Branch Reference Dose Committee (4/10/87) because most of the critical toxicology studies for this chemical had not, at that point in time, been reviewed. When the scientific evaluations of these studies have been completed, a higher value for an ADI may be established thereby lowering the TAS calculated TMRC and percent ADI utilized. The review of these toxicology studies is now in progress (verbal communication, Pam Hurly, Tox. Branch 8/14/87). This TAS analysis has been conducted using the tolerance values as they would be published.

The Rohm and Haas Company has stated, "The actual residue contribution of Myclobutanil treated crops to the diet is very much lower than the theoretical maximum concentration, and, in fact, is negligible under the conditions of the EUP program" In defense of this statement the company offers the following "factors mitigating dietary exposure".

a. Only a very small fraction of the total apple crop is treated. In 1987, we treated 260 acres or 0.05% of total apple acreage. We treated 168 acres or 0.02% of the total grape acreage (730,000 acres est.).

b. A small fraction of the treated acreage will be processed. Based on the quantity of damaged, treated crop purchased in 1986, we estimate 10% of the crop will be processed in 1987.

c. Combining treated crop with untreated crop during processing will dilute residues to non-detectable levels.

A response to the above rationale has been submitted by E. Neil Pelletier, Science Support Branch, Benefits and Use Division, 8/21/87, and reads as follows: "... Based on Dept of Commerce data presented in its Census of Agriculture, the production figures Rohm and Hass closely match those of the census and therefore the percentage crop treated figures are accurate.

In so far as the percentage of treated apples and grapes destined for processing, it is not possible to make a meaningful estimate based on national averages. Although about 45% of the U.S. apple crop is used for processing (the percentage for grapes is much higher), the percentage would vary with the crop variety, growing region, etc. Since these factors would enter into percentage of myclobutanil treated fruit entering into the process fruit market, it is not unreasonable to accept the Rohm Hass estimate that 10 percent of the crop might be fruit for processing".

This TAS analysis does not provide a realistic estimate of dietary risk because it is (1) based on a PADI that uses a 1000 fold safety factor, (2) is based on tolerance level residues in foods as consumed and (3) the percent of crop treated has not been taken into consideration. Any consideration of permanent tolerances on these crops, assuming the same PADI (or an ADI of similar magnitude) will need to be supported by data that will allow more precise estimates of dietary exposure (i.e. more extensive field trial data, cooking studies, processing studies, etc.). We note that processing studies have been submitted (see memo. of R. Loranger, 8/16/87, PP# 7G3479).

ATTACHMENT

cc. Rally S.F.  
Reading File  
TAS File  
C. Frick (RCB)  
Circ.  
PMSD

TABLE 1

Commodity Contribution of Selected RACs to Myclobutanil ADI<sup>C</sup>

<u>RAC</u>	<u>U.S. Average</u>	<u>Non-nursing Infants &lt;1 yr</u>	<u>Children 1-6 yrs</u>
Apples	131.8% <sup>a</sup> (44.8%) <sup>b</sup>	1341.7% (71.6%)	453.6% (47.8%)
Grapes/Juice	25.3% (8.6%)	45.8% (2.4%)	97.0% (10.2%)
Raisins	28.3% (9.6%)	6.9% (0.4%)	120.2% (12.7%)
Red Meat	31.1% (10.6%)	31.1% (1.7%)	56.4% (5.9%)
Poultry	3.4% (1.1%)	7.0% (0.4%)	6.9% (0.7%)
Milk	70.5% (23.9%)	436.5% (23.3%)	207.0% (21.8%)
Eggs	3.8% (1.3%)	4.1% (0.2%)	8.6% (0.9%)

<sup>a</sup>expressed as percent of the ADI.

<sup>b</sup>expressed as percent of the total TMRC.

<sup>c</sup>analysis based on a PADI of 0.0003 mg/kg/day.

Table 2

### Commodity Contribution of Selected RACs

To Myclobutanil ADI

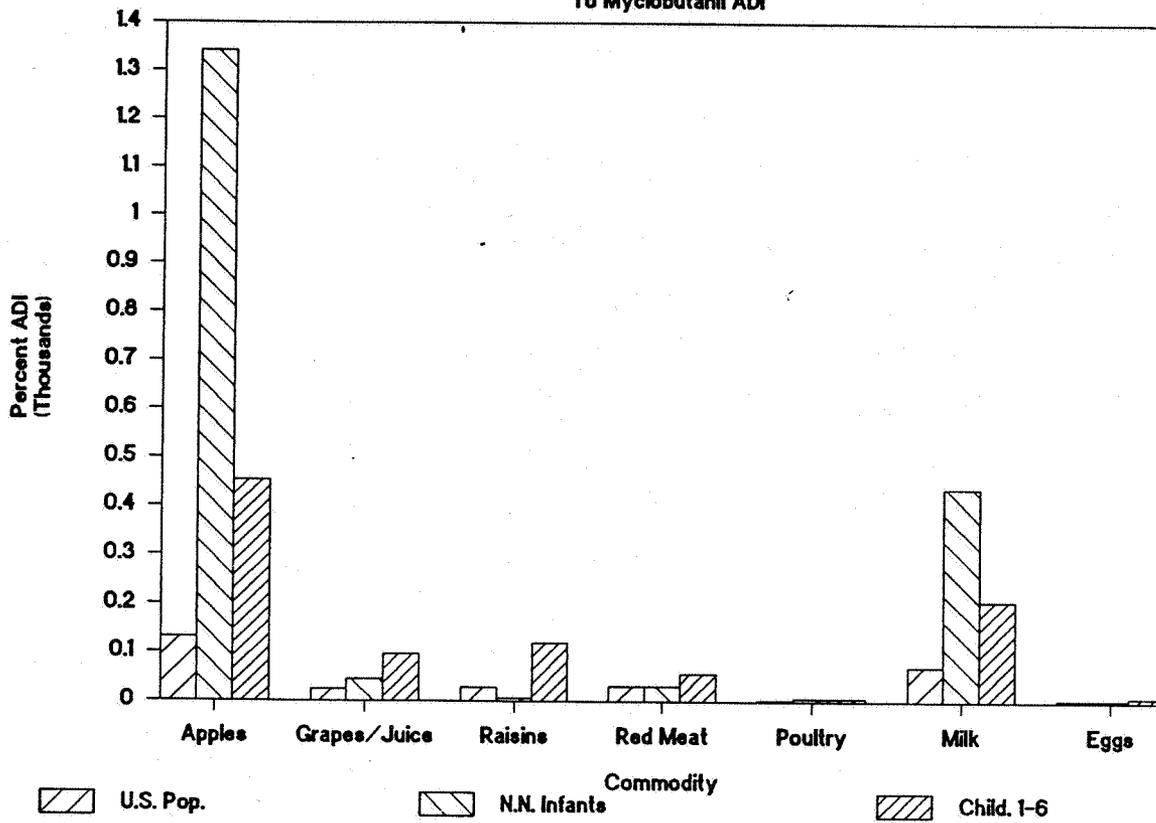
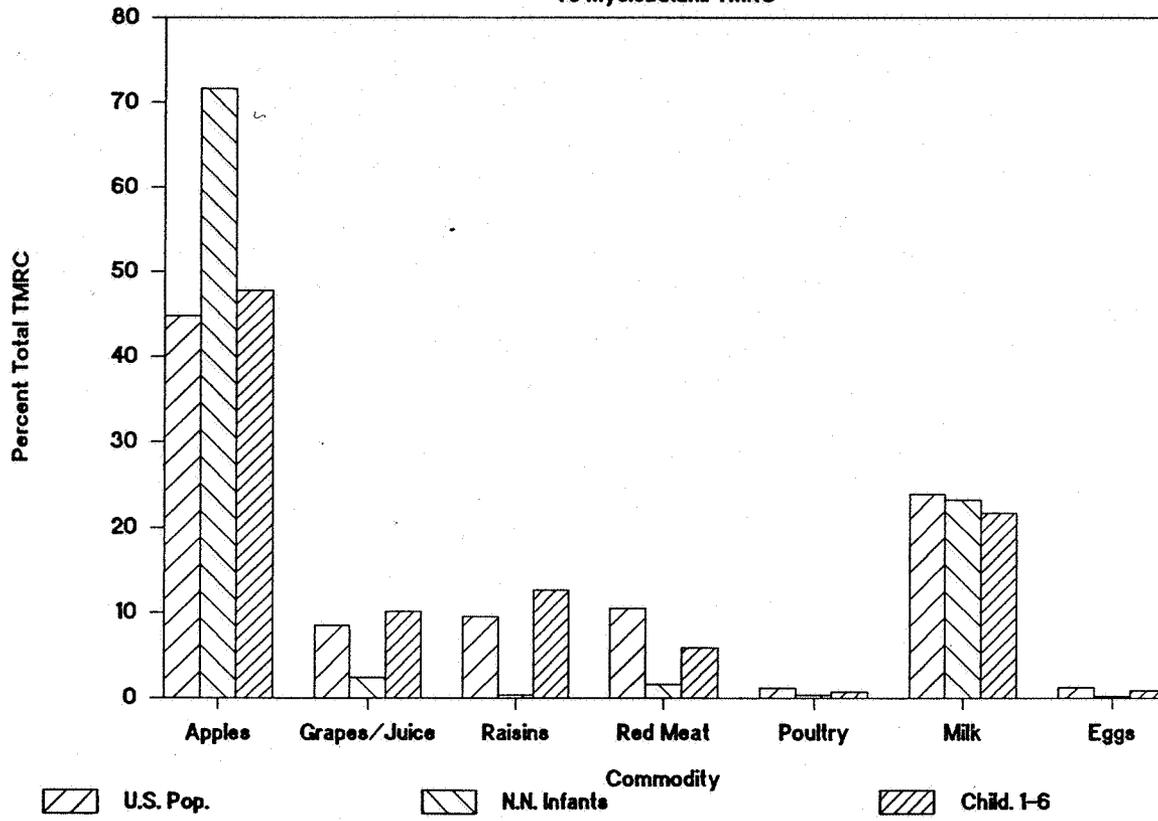


Table 3

### Commodity Contribution of Selected RACs

To Myclobutanil TMRC



CHEMICAL INFORMATION FOR CASWELL NUMBER 723K

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Rally (Systhame) Caswell #723K CAS No. 88671-89-0 A.I. CODE: 128857 CFR No. 180.	90d feeding- dog NOEL= 0.3000 mg/kg LEL= 5.9000 mg/kg 0.00 ppm ONCO: Pending.	Hepatocellular hypertrophy. Oncogenicity studies in rat and mouse under review.	PADI 1000 OPP Rfd= 0.000300 EPA Rfd= 0.000000 WHO Rfd 0.000000 Type:	Chronic feeding- rat Chronic feeding- dog Teratology- rabbit Mouse oncogenicity. (studies under review)	TOX complete 4/10/87. ORD not scheduled.

FOOD CODE	FOOD NAME	PETITION NUMBER	TOLERANCE (PPM)	
			NEW	PENDING PUBLISHED
01014AA	GRAPES-FRESH	463149	5.000000	0.500000
01014DA	GRAPES-RAISINS	785523		
01014JA	GRAPES-JUICE	463149		H
04001AA	APPLES-FRESH	463149		0.500000
04001DA	APPLES-DRIED	463149		0.500000
04001JA	APPLES-JUICE	463149		0.500000
50000DB	MILK-NON-FAT SOLIDS	763479	0.020000	
50000FA	MILK-FAT SOLIDS	763479	0.020000	
50000SA	MILK SUGAR (LACTOSE)	763479	0.020000	
53001BA	BEEF-MEAT BYPRODUCTS	763479	0.040000	
53001BB	BEEF(ORGAN MEATS)-OTHER	763479	0.040000	
53001DA	BEEF-DRIED	763479	0.040000	
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW)	763479	0.040000	
53001KA	BEEF(ORGAN MEATS)-KIDNEY	763479	0.040000	
53001LA	BEEF(ORGAN MEATS)-LIVER	763479	0.200000	
53001MA	BEEF(BONELESS)-LEAN (W/O REMOVEABLE FAT)	763479	0.040000	
53002BA	GOAT-MEAT BYPRODUCTS	763479	0.040000	
53002BB	GOAT(ORGAN MEATS)-OTHER	763479	0.040000	
53002FA	GOAT(BONELESS)-FAT	763479	0.040000	
53002KA	GOAT(ORGAN MEATS)-KIDNEY	763479	0.040000	
53002LA	GOAT(ORGAN MEATS)-LIVER	763479	0.200000	
53002MA	GOAT(BONELESS)-LEAN (W/O REMOVEABLE FAT)	763479	0.040000	
53003AA	HORSE	763479	0.040000	
53005BA	SHEEP-MEAT BYPRODUCTS	763479	0.040000	
53005BB	SHEEP(ORGAN MEATS)-OTHER	763479	0.040000	
53005FA	SHEEP(BONELESS)-FAT	763479	0.040000	
53005KA	SHEEP(ORGAN MEATS)-KIDNEY	763479	0.040000	
53005LA	SHEEP(ORGAN MEATS)-LIVER	763479	0.200000	
53005MA	SHEEP(BONELESS)-LEAN (W/O REMOVEABLE FAT)	763479	0.040000	
53006BA	PORK-MEAT BYPRODUCTS	763479	0.040000	
53006BB	PORK(ORGAN MEATS)-OTHER	763479	0.040000	
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD)	763479	0.040000	
53006KA	PORK(ORGAN MEATS)-KIDNEY	763479	0.040000	
53006LA	PORK(ORGAN MEATS)-LIVER	763479	0.200000	
53006MA	PORK(BONELESS)-LEAN (W/O REMOVEABLE FAT)	763479	0.040000	
55008BA	TURKEY-BYPRODUCTS	763479	0.020000	
55008LA	TURKEY-GIBLETS (LIVER)	763479	0.020000	
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES)	763479	0.020000	
55008MB	TURKEY-FLESH(+SKIN,W/O BONES)	763479	0.020000	
55008MC	TURKEY-UNSPECIFIED	763479	0.020000	

CHEMICAL INFORMATION FOR CASWELL NUMBER 723K

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FOOD CODE	FOOD NAME	PETITION NUMBER	NEW	TOLERANCE (PPM)	PENDING	PUBLISHED
55013BA	POULTRY, OTHER-BYPRODUCTS	7G3479		0.020000		
55013LA	POULTRY, OTHER-GIBLETS(LIVER)	7G3479		0.020000		
55013MA	POULTRY, OTHER-FLESH (+SKIN, W/O BONES)	7G3479		0.020000		
55014AA	EGGS-WHOLE	7G3479		0.020000		
55014AB	EGGS-WHITE ONLY	7G3479		0.020000		
55014AC	EGGS-YOLK ONLY	7G3479		0.020000		
55015BA	CHICKEN-BYPRODUCTS	7G3479		0.020000		
55015LA	CHICKEN-GIBLETS(LIVER)	7G3479		0.020000		
55015MA	CHICKEN-FLESH(W/O SKIN, W/O BONES)	7G3479		0.020000		
55015MB	CHICKEN-FLESH(+SKIN, W/O BONES)	7G3479		0.020000		

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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POPULATION SUBGROUP	TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		NEW TMRC AS PERCENT OF RFD	DIFFERENCE AS PERCENT OF RFD	EFFECT OF ANTICIPATED RESIDUES
	CURRENT TMRC*	NEW TMRC**			
U.S. POPULATION - 48 STATES	0.0005	0.0009	294.2373	137.1100	ARC %RFD
U.S. POPULATION - SPRING SEASON	0.0004	0.0008	254.4397	126.6297	
U.S. POPULATION - SUMMER SEASON	0.0004	0.0008	269.4740	134.4067	
U.S. POPULATION - FALL SEASON	0.0006	0.0010	332.3213	146.5750	
U.S. POPULATION - WINTER SEASON	0.0005	0.0010	320.7927	140.8563	
NORTHEAST REGION	0.0006	0.0010	338.9937	143.7820	
NORTH CENTRAL REGION	0.0004	0.0009	285.9083	142.4037	
SOUTHERN REGION	0.0004	0.0007	237.5737	118.0150	
WESTERN REGION	0.0006	0.0010	344.4233	153.5087	
HISPANICS	0.0005	0.0010	324.4627	159.3427	
NON-HISPANIC WHITES	0.0005	0.0009	302.4920	138.7390	
NON-HISPANIC BLACKS	0.0003	0.0007	227.1493	115.9040	
NON-HISPANICS OTHER	0.0005	0.0009	290.0077	138.7680	
NURSING INFANTS (<1 YEAR OLD)	0.0030	0.0034	1120.5220	116.5963	
NON-NURSING INFANTS (<1 YEAR OLD)	0.0042	0.0056	1873.0460	485.5683	
FEMALES (13+ YEARS, PREGNANT)	0.0003	0.0006	194.3113	93.9887	
FEMALES 13+ YEARS, NURSING	0.0004	0.0008	250.6077	116.0190	
CHILDREN (1-6 YEARS OLD)	0.0017	0.0028	949.6427	399.0353	
CHILDREN (7-12 YEARS OLD)	0.0007	0.0013	438.9250	214.3150	
MALES (13-19 YEARS OLD)	0.0003	0.0007	236.2197	140.2390	
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.0003	0.0006	208.2453	107.6283	
MALES (20 YEARS AND OLDER)	0.0002	0.0005	157.3110	87.4427	
FEMALES (20 YEARS AND OLDER)	0.0002	0.0005	159.3457	79.6680	

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

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LISTING OF EXPOSURE BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOOD NAME	TOLERANCE (PPM)		EXISTING TOLERANCES		NEW, PENDING & PUBLISHED TOLERANCES	
		NEW	PENDING	PUBLISHED	(UG/KG/DAY) TMRC	%RfD	(UG/KG/DAY) NEW TMRC
04001AA	APPLES-FRESH			0.5000	0.2284	76.1213	
04001BA	APPLES-DRIED			0.5000	0.0008	0.2753	
04001JA	APPLES-JUICE			0.5000	0.1662	55.4123	
CROP GROUP TOTALS FOR POME FRUITS:							
01014AA	GRAPES-FRESH			0.5000	0.0219	7.2990	
01014BA	GRAPES-RAISINS			0.5000	0.0541	18.0193	
01014JA	GRAPES-JUICE			0.5000	0.0541	18.0193	
CROP GROUP TOTALS FOR SMALL FRUITS AND BERRIES:							
53001BA	BEEF-MEAT BYPRODUCTS			0.0400	0.0760	25.3183	
53001BB	BEEF(ORGAN MEATS)-OTHER			0.0400			0.0007
53001DA	BEEF-DRIED			0.0400			0.0002
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW)			0.0400			0.0001
53001KA	BEEF(ORGAN MEATS)-KIDNEY			0.0400			0.0149
53001LA	BEEF(ORGAN MEATS)-LIVER			0.0400			0.0000
53001MA	BEEF(BONELESS)-LEAN (W/O REMOVABLE FAT)			0.0400			0.0041
53002BA	GOAT-MEAT BYPRODUCTS			0.0400			0.0465
53002BB	GOAT(ORGAN MEATS)-OTHER			0.0400			0.0000
53002FA	GOAT(BONELESS)-FAT			0.0400			0.0000
53002KA	GOAT(ORGAN MEATS)-KIDNEY			0.0400			0.0000
53002LA	GOAT(ORGAN MEATS)-LIVER			0.0400			0.0000
53002MA	GOAT(BONELESS)-LEAN (W/O REMOVABLE FAT)			0.0400			0.0000
53003AA	HORSE			0.0400			0.0000
53003BA	SHEEP-MEAT BYPRODUCTS			0.0400			0.0000
53003BB	SHEEP(ORGAN MEATS)-OTHER			0.0400			0.0000
53003FA	SHEEP(BONELESS)-FAT			0.0400			0.0000
53003KA	SHEEP(ORGAN MEATS)-KIDNEY			0.0400			0.0002
53003LA	SHEEP(ORGAN MEATS)-LIVER			0.0400			0.0000
53003MA	SHEEP(BONELESS)-LEAN (W/O REMOVABLE FAT)			0.0400			0.0000
53003AA	PORK-MEAT BYPRODUCTS			0.0400			0.0000
53003BA	PORK(ORGAN MEATS)-OTHER			0.0400			0.0000
53003FA	PORK(BONELESS)-FAT (INCLUDING LARD)			0.0400			0.0002
53003KA	PORK(ORGAN MEATS)-KIDNEY			0.0400			0.0010
53003LA	PORK(ORGAN MEATS)-LIVER			0.0400			0.0083
53003MA	PORK(BONELESS)-LEAN (W/O REMOVABLE FAT)			0.0400			0.0010
53006AA	PORK(ORGAN MEATS)-LIVER			0.0400			0.0157
53006BA	PORK(BONELESS)-LEAN (W/O REMOVABLE FAT)			0.0400			0.0157
CROP GROUP TOTALS FOR RED MEAT:							
				0.0000		0.0000	0.0934
				0.0000		0.0000	31.1177

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LISTING OF EXPOSURE BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOOD NAME	TOLERANCE (PPM)			EXISTING TOLERANCES (UG/KG/DAY)			NEW, PENDING & PUBLISHED TOLERANCES (UG/KG/DAY)		
		NEW	PENDING	PUBLISHED	TMRC	%RFD	NEW TMRC	NEW %RFD	NEW %RFD	
55008BA	TURKEY-BYPRODUCTS	0.0200			0.0000		0.0000	0.0017		
55008LA	TURKEY-GIBLETS (LIVER)	0.0200			0.0000		0.0003			
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES)	0.0200			0.0002		0.0530			
55008MB	TURKEY-FLESH(+SKIN, W/O BONES)	0.0200			0.0010		0.3210			
55008MC	TURKEY-UNSPECIFIED	0.0200			0.0000		0.0007			
55013BA	POULTRY, OTHER-BYPRODUCTS	0.0200			0.0000		0.0000			
55013LA	POULTRY, OTHER-GIBLETS(LIVER)	0.0200			0.0000		0.0017			
55013MA	POULTRY, OTHER-FLESH (+SKIN, W/O BONES)	0.0200			0.0001		0.0360			
55015BA	CHICKEN-BYPRODUCTS	0.0200			0.0000		0.0000			
55015LA	CHICKEN-GIBLETS(LIVER)	0.0200			0.0001		0.0337			
55015MA	CHICKEN-FLESH(W/O SKIN, W/O BONES)	0.0200			0.0012		0.4010			
55015MB	CHICKEN-FLESH(+SKIN, W/O BONES)	0.0200			0.0076		2.5287			
CROP GROUP TOTALS FOR POULTRY:					0.0000		0.0000	3.3777		
50000DB	MILK-NON-FAT SOLIDS	0.0200			0.1427		47.5757			
50000FA	MILK-FAT SOLIDS	0.0200			0.0679		22.6320			
50000SA	MILK SUGAR (LACTOSE)	0.0200			0.0007		0.2497			
55014AA	EGGS-WHOLE	0.0200			0.0113		3.7633			
55014AB	EGGS-WHITE ONLY	0.0200			0.0002		0.0613			
55014AC	EGGS-YOLK ONLY	0.0200			0.0001		0.0443			
CROP GROUP TOTALS FOR DAIRY PRODUCTS:					0.0000		0.0000	74.3263		

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LISTING OF EXPOSURE BY RAC FOR: NON-NURSING INFANTS (<1 YEAR OLD)

FOOD CODE	FOOD NAME	TOLERANCE (PPM)		EXISTING TOLERANCES (UG/KG/DAY)		NEW, PENDING & PUBLISHED TOLERANCES (UG/KG/DAY)		NEW %RFD
		NEW	PENDING	TMRC	%RFD	NEW TMRC	NEW %RFD	
04001AA	APPLES-FRESH			1.4270	475.6660			
04001DA	APPLES-DRIED			0.0000	0.0000			
04001JA	APPLES-JUICE			2.5982	866.0520			
CROP GROUP TOTALS FOR POME FRUITS:								
01014AA	GRAPES-FRESH			0.0124	4.1227			
01014DA	GRAPES-RAISINS			0.1249	41.6370			
01014JA	GRAPES-JUICE			0.1373	45.7597			
CROP GROUP TOTALS FOR SMALL FRUITS AND BERRIES:								
53001BA	BEEF-MEAT BYPRODUCTS	0.0400		0.0004	0.0000	0.0004	0.1470	
53001BB	BEEF(ORGAN MEATS)-OTHER	0.0400		0.0001	0.0000	0.0001	0.0413	
53001DA	BEEF-DRIED	0.0400		0.0000	0.0000	0.0000	0.0000	
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW)	0.0400		0.0077	0.0000	0.0077	2.5503	
53001KA	BEEF(ORGAN MEATS)-KIDNEY	0.0400		0.0000	0.0000	0.0000	0.0000	
53001LA	BEEF(ORGAN MEATS)-LIVER	0.2000		0.0062	0.0000	0.0062	2.0823	
53001MA	BEEF(BONELESS)-LEAN (W/O REMOVABLE FAT)	0.0400		0.0491	0.0000	0.0491	16.3713	
53002BA	GOAT-MEAT BYPRODUCTS	0.0400		0.0000	0.0000	0.0000	0.0000	
53002BB	GOAT(ORGAN MEATS)-OTHER	0.0400		0.0000	0.0000	0.0000	0.0000	
53002FA	GOAT(BONELESS)-FAT	0.0400		0.0000	0.0000	0.0000	0.0000	
53002KA	GOAT(ORGAN MEATS)-KIDNEY	0.0400		0.0000	0.0000	0.0000	0.0000	
53002LA	GOAT(ORGAN MEATS)-LIVER	0.2000		0.0000	0.0000	0.0000	0.0000	
53002MA	GOAT(BONELESS)-LEAN (W/O REMOVABLE FAT)	0.0400		0.0000	0.0000	0.0000	0.0000	
53003AA	HORSE	0.0400		0.0000	0.0000	0.0000	0.0000	
53003BA	SHEEP-MEAT BYPRODUCTS	0.0400		0.0000	0.0000	0.0000	0.0000	
53003BB	SHEEP(ORGAN MEATS)-OTHER	0.0400		0.0000	0.0000	0.0000	0.0000	
53003FA	SHEEP(BONELESS)-FAT	0.0400		0.0000	0.0000	0.0000	0.0000	
53003KA	SHEEP(ORGAN MEATS)-KIDNEY	0.0400		0.0003	0.0000	0.0003	0.0967	
53003LA	SHEEP(ORGAN MEATS)-LIVER	0.2000		0.0000	0.0000	0.0000	0.0000	
53003MA	SHEEP(BONELESS)-LEAN (W/O REMOVABLE FAT)	0.0400		0.0025	0.0000	0.0025	0.8407	
53003PA	SHEEP(ORGAN MEATS)-KIDNEY	0.0400		0.0002	0.0000	0.0002	0.0767	
53003QA	PORK-MEAT BYPRODUCTS	0.0400		0.0001	0.0000	0.0001	0.0203	
53003RA	PORK(ORGAN MEATS)-OTHER	0.0400		0.0059	0.0000	0.0059	1.9537	
53003SA	PORK(BONELESS)-FAT (INCLUDING LARD)	0.0400		0.0000	0.0000	0.0000	0.0000	
53003TA	PORK(ORGAN MEATS)-KIDNEY	0.0400		0.0000	0.0000	0.0000	0.0000	
53003UA	PORK(ORGAN MEATS)-LIVER	0.2000		0.0030	0.0000	0.0030	1.0047	
53003VA	PORK(BONELESS)-LEAN (W/O REMOVABLE FAT)	0.0400		0.0177	0.0000	0.0177	5.8900	
CROP GROUP TOTALS FOR RED MEAT:				0.0000	0.0000	0.0932	31.0750	

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Rally (Systhane) Casmell #723K CAS No. 88671-89-0 A.I. CODE: 128857 CFR No. 180.	90d feeding - dog NOEL = 0.3000 mg/kg LEL = 0.00 ppm 5.9000 mg/kg 0.00 ppm ONCO: Pending.	Hepatocellular hypertrophy. Oncogenicity studies in rat and mouse under review.	PADI 1000 OPP RfD = 0.000300 EPA RfD = 0.000000 WHO RfD 0.000000 Type:	Chronic feeding - rat Chronic feeding - dog Teratology - rabbit Mouse oncogenicity (studies under review)	TOX complete 4/10/87. ORD not scheduled.

LISTING OF EXPOSURE BY RAC FOR: NON-NURSING INFANTS (<1 YEAR OLD)

FOOD CODE	FOOD NAME	TOLERANCE (PPM)			EXISTING TOLERANCES		NEW, PENDING & PUBLISHED TOLERANCES	
		NEW	PENDING	PUBLISHED	THRC (UG/KG/DAY)	%RfD	NEW THRC (UG/KG/DAY)	NEW %RfD
550089A	TURKEY-BYPRODUCTS	0.0200			0.0000		0.0000	
550081A	TURKEY-GIBLETS (LIVER)	0.0200			0.0000		0.0000	
550089A	TURKEY-FLESH(W/O SKIN, W/O BONES)	0.0200			0.0024		0.7993	
550089B	TURKEY-FLESH(+SKIN, W/O BONES)	0.0200			0.0016		0.5423	
550089C	TURKEY-UNSPECIFIED	0.0200			0.0000		0.0000	
550138A	POLTRY, OTHER-BYPRODUCTS	0.0200			0.0000		0.0000	
550131A	POLTRY, OTHER-GIBLETS(LIVER)	0.0200			0.0000		0.0000	
550138A	POLTRY, OTHER-FLESH (+SKIN, W/O BONES)	0.0200			0.0000		0.0000	
550158A	CHICKEN-BYPRODUCTS	0.0200			0.0000		0.0000	
550151A	CHICKEN-GIBLETS(LIVER)	0.0200			0.0003		0.1067	
550159A	CHICKEN-FLESH(W/O SKIN, W/O BONES)	0.0200			0.0066		2.1890	
550159B	CHICKEN-FLESH(+SKIN, W/O BONES)	0.0200			0.0102		3.3897	
CROP GROUP TOTALS FOR POLTRY:					0.0211		7.0270	
500000B	MILK-NON-FAT SOLIDS	0.0200			1.0239		341.2900	
500000A	MILK-FAT SOLIDS	0.0200			0.2251		75.0377	
500000S	MILK SUGAR (LACTOSE)	0.0200			0.0606		20.2030	
55014AA	EGGS-WHOLE	0.0200			0.0094		3.1423	
55014AB	EGGS-WHITE ONLY	0.0200			0.0001		0.0273	
55014AC	EGGS-YOLK ONLY	0.0200			0.0026		0.8593	
CROP GROUP TOTALS FOR DAIRY PRODUCTS:					0.0000		440.5597	