



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

SEP 10 1987

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

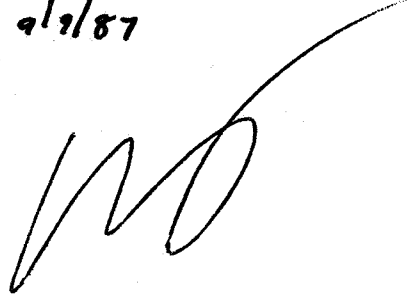
MEMORANDUM

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 *C. Frick 9/1/87*
Tolerance Assessment Program
Residue Chemistry Branch, HED

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

A large, stylized handwritten signature, likely of Charles L. Trichilo, is written over the "Thru:" section and extends into the right margin.

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).

A TAS analysis using the tolerance values has been performed, memo. C.Frick, 9/1/87.

This TAS analysis has incorporated the tolerance values factored by percent crop treated.

The Tolerance 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 factoring in the percent of crop treated.

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 0.000004 mg/kg/day, which is equivalent to 1.18% of the PADI. The subgroups calculated to have the highest dietary exposure were non-nursing infants (0.000016 mg/kg/day, which is equivalent to 5.46 % of the PADI) and children 1-6 years of age (0.000009 mg/kg/day, equivalent to 3.13% of the PADI). For commodity contributions of selected RACs to the Myclobutanil PADI and TMRC, see tables 2 thru 11.

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). The tolerance values used in this TAS analysis have been factored by percent of crop treated.

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,

A response to the above rational 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 Rohn 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".

As BUD lends support to the percent of apples and grapes that will receive treatment under this program, the TAS analysis has factored the tolerance values of apples and grapes by 0.05% and 0.02% respectively. While it is difficult to estimate an exposure percentage for meat, milk and eggs, RCB is confident that a factoring value of 1.0% will greatly exceed actual exposure. The registrant needs to be informed that these factoring values (% of crop treated) have meaning only for this EUP and would not be used in the tolerance assessment for permanent tolerances.

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 estimate 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).

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

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 723K

DATE: 09/09/87

PAGE: 1

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Rally (Systhane) Caswell #723K CAS No. 88671-89-0 A.I. CODE: 128857 CFR No. 180.	90d feeding- dog NOEL= 0.3000 mg/kg 0.00 ppm LEL= 5.9000 mg/kg 0.00 ppm ONCO: Pending.	Hepatocellular hypertro- phy. 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 Teratology- rabbit Mouse oncogenicity (studies under review)	TOX complete 4/10/87. ORD not scheduled.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	463149	0.500000	0.500000		0.02	0.000100
01014AA	GRAPES-FRESH	21 COOKED-NFS	463149	0.500000	0.500000		0.02	0.000100
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	463149	0.500000	0.500000		0.02	0.000100
01014DA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	7H5523	5.000000	5.000000		0.02	0.001000
01014DA	GRAPES-RAISINS	21 COOKED-NFS	7H5523	5.000000	5.000000		0.02	0.001000
01014DA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	7H5523	5.000000	5.000000		0.02	0.001000
01014JA	GRAPES-JUICE	10 RAW-FRESH OR NFS	463149	0.500000	0.500000		0.02	0.000100
01014JA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	463149	0.500000	0.500000		0.02	0.000100
01014JA	GRAPES-JUICE	21 COOKED-NFS	463149	0.500000	0.500000		0.02	0.000100
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	463149	0.500000	0.500000		0.05	0.000250
04001AA	APPLES-FRESH	21 COOKED-NFS	463149	0.500000	0.500000		0.05	0.000250
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	463149	0.500000	0.500000		0.05	0.000250
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	463149	0.500000	0.500000		0.05	0.000250
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	463149	0.500000	0.500000		0.05	0.000250
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	463149	0.500000	0.500000		0.05	0.000250
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	463149	0.500000	0.500000		0.05	0.000250
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	463149	0.500000	0.500000		0.05	0.000250
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	463149	0.500000	0.500000		0.05	0.000250
50000DB	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	7G3479	0.020000	0.020000		1.00	0.000200
50000DB	MILK-NON-FAT SOL	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
50000DB	MILK-NON-FAT SOL	51 COOKED-CANNED	7G3479	0.020000	0.020000		1.00	0.000200
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	7G3479	0.020000	0.020000		1.00	0.000200
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	7G3479	0.020000	0.020000		1.00	0.000200
50000SA	MILK-SUG (LACT)	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
50000SA	MILK-SUG (LACT)	51 COOKED-CANNED	7G3479	0.020000	0.020000		1.00	0.000200
53001BA	BEEF-MEAT BYP	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53001BA	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	7G3479	0.040000	0.040000		1.00	0.000400
53001BB	BEEF-OTB ORGAN	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53001BB	BEEF-OTB ORGAN	51 COOKED-CANNED	7G3479	0.040000	0.040000		1.00	0.000400
53001DA	BEEF-DRIED	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	7G3479	0.040000	0.040000		1.00	0.000400
53001FA	BEEF-FAT	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	7G3479	0.040000	0.040000		1.00	0.000400
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	7G3479	0.040000	0.040000		1.00	0.000400
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	7G3479	0.040000	0.040000		1.00	0.000400
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	7G3479	0.040000	0.040000		1.00	0.000400
53001KA	BEEF-KIDNEY	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	7G3479	0.200000	0.200000		1.00	0.002000
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	7G3479	0.200000	0.200000		1.00	0.002000

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 723K

DATE: 09/09/87

PAGE: 2

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	763479	0.040000	0.040000		1.00	0.000400
53001MA	BEEF-LEAN	21 COOKED-NFS	763479	0.040000	0.040000		1.00	0.000400
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	763479	0.040000	0.040000		1.00	0.000400
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	763479	0.040000	0.040000		1.00	0.000400
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	763479	0.040000	0.040000		1.00	0.000400
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	763479	0.040000	0.040000		1.00	0.000400
53002BA	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	763479	0.040000	0.040000		1.00	0.000400
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	763479	0.040000	0.040000		1.00	0.000400
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	763479	0.040000	0.040000		1.00	0.000400
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	763479	0.040000	0.040000		1.00	0.000400
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	763479	0.200000	0.200000		1.00	0.002000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	763479	0.040000	0.040000		1.00	0.000400
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	763479	0.040000	0.040000		1.00	0.000400
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	763479	0.040000	0.040000		1.00	0.000400
53005BA	SHEEP-OTH ORGAN	21 COOKED-NFS	763479	0.040000	0.040000		1.00	0.000400
53005FA	SHEEP-FAT	21 COOKED-NFS	763479	0.040000	0.040000		1.00	0.000400
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	763479	0.040000	0.040000		1.00	0.000400
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	763479	0.200000	0.200000		1.00	0.002000
53005MA	SHEEP-LEAN	31 COOKED-NFS	763479	0.040000	0.040000		1.00	0.000400
53006BA	PORK-MEAT BYP	21 COOKED-NFS	763479	0.040000	0.040000		1.00	0.000400
53006BA	PORK-OTH ORGAN	21 COOKED-NFS	763479	0.040000	0.040000		1.00	0.000400
53006BA	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	763479	0.040000	0.040000		1.00	0.000400
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	763479	0.040000	0.040000		1.00	0.000400
53006FA	PORK-FAT	21 COOKED-NFS	763479	0.040000	0.040000		1.00	0.000400
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	763479	0.040000	0.040000		1.00	0.000400
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	763479	0.040000	0.040000		1.00	0.000400
53006LA	PORK-LIVER	21 COOKED-NFS	763479	0.200000	0.200000		1.00	0.002000
53006LA	PORK-LIVER	21 COOKED-NFS	763479	0.040000	0.040000		1.00	0.000400
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	763479	0.040000	0.040000		1.00	0.000400
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	763479	0.040000	0.040000		1.00	0.000400
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	763479	0.020000	0.020000		1.00	0.000200
53008BA	TURKEY-BYP	21 COOKED-NFS	763479	0.020000	0.020000		1.00	0.000200
53008BA	TURKEY-BYP	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	763479	0.020000	0.020000		1.00	0.000200
53008LA	TURKEY ORGAN	21 COOKED-NFS	763479	0.020000	0.020000		1.00	0.000200
53008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	763479	0.020000	0.020000		1.00	0.000200
53008MA	TURKEY W/O SKIN	21 COOKED-NFS	763479	0.020000	0.020000		1.00	0.000200

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 723K

DATE: 09/09/87

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CHEMICAL		STUDY TYPE		EFFECTS		REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS	
Rally (Systhane) Caswell #723K CAS No. 88671-89-0 A.I. CODE: 128857 CFR No. 180.		90d feeding- dog NOEL= 0.3000 mg/kg 0.00 ppm LEL= 5.9000 mg/kg 0.00 ppm ONCO: Pending.		Hepatocellular hypertro- phy. 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	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
55008MA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	763479	0.020000	0.020000		1.00	0.000200
55008MA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	763479	0.020000	0.020000		1.00	0.000200
55008MB	TURKEY+SKIN	21 COOKED-NFS	763479	0.020000	0.020000		1.00	0.000200
55008MB	TURKEY+SKIN	25 COOKED-FRESH-FRIED	763479	0.020000	0.020000		1.00	0.000200
55008MC	TURKEY-UNSPEC	21 COOKED-NFS	763479	0.020000	0.020000		1.00	0.000200
55013BA	POULTRY,OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	763479	0.020000	0.020000		1.00	0.000200
55013LA	POULTRY,ORGAN	25 COOKED-FRESH-FRIED	763479	0.020000	0.020000		1.00	0.000200
55013MA	POULTRY,OTHER	21 COOKED-NFS	763479	0.020000	0.020000		1.00	0.000200
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	763479	0.020000	0.020000		1.00	0.000200
55014AA	EGGS-WHOLE	21 COOKED-NFS	763479	0.020000	0.020000		1.00	0.000200
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	763479	0.020000	0.020000		1.00	0.000200
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	763479	0.020000	0.020000		1.00	0.000200
55014AB	EGGS-WHOLE	25 COOKED-FRESH-FRIED	763479	0.020000	0.020000		1.00	0.000200
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS	763479	0.020000	0.020000		1.00	0.000200
55014AB	EGGS-WHITE ONLY	21 COOKED-NFS	763479	0.020000	0.020000		1.00	0.000200
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	763479	0.020000	0.020000		1.00	0.000200
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	763479	0.020000	0.020000		1.00	0.000200
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	763479	0.020000	0.020000		1.00	0.000200
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	763479	0.020000	0.020000		1.00	0.000200
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	763479	0.020000	0.020000		1.00	0.000200
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	763479	0.020000	0.020000		1.00	0.000200
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	763479	0.020000	0.020000		1.00	0.000200
55015BA	CHICKEN-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	763479	0.020000	0.020000		1.00	0.000200
55015LA	CHICKEN-ORGAN	21 COOKED-NFS	763479	0.020000	0.020000		1.00	0.000200
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	763479	0.020000	0.020000		1.00	0.000200
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	763479	0.020000	0.020000		1.00	0.000200
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS	763479	0.020000	0.020000		1.00	0.000200
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	763479	0.020000	0.020000		1.00	0.000200
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	763479	0.020000	0.020000		1.00	0.000200
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	763479	0.020000	0.020000		1.00	0.000200
55015MB	CHICKEN+SKIN	21 COOKED-NFS	763479	0.020000	0.020000		1.00	0.000200
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	763479	0.020000	0.020000		1.00	0.000200

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

DATE: 09/09/87

PAGE: 1

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POPULATION SUBGROUP	TOTAL TMRC (MG/KG BODY WEIGHT/DAY)		NEW TMRC	DIFFERENCE		EFFECT OF ANTICIPATED RESIDUES	
	CURRENT TMRC*	NEW TMRC**	AS PERCENT OF RFD	AS PERCENT OF RFD	ARC (MG/KG/DAY)	%RFD	
U.S. POPULATION - 48 STATES	0.000471	0.000883	294.237333	137.110000	0.000004	1.181000	
U.S. POPULATION - SPRING SEASON	0.000383	0.000763	254.439667	126.629667	0.000003	1.108667	
U.S. POPULATION - SUMMER SEASON	0.000405	0.000808	269.474000	134.406667	0.000003	1.160667	
U.S. POPULATION - FALL SEASON	0.000557	0.000997	332.321333	146.575000	0.000004	1.239667	
U.S. POPULATION - WINTER SEASON	0.000540	0.000962	320.792667	140.856333	0.000004	1.214000	
NORTHEAST REGION	0.000586	0.001017	338.993667	143.782000	0.000004	1.231333	
NORTH CENTRAL REGION	0.000431	0.000858	285.908333	142.403667	0.000004	1.209667	
SOUTHERN REGION	0.000359	0.000713	237.573667	118.015000	0.000003	1.057000	
WESTERN REGION	0.000573	0.001033	344.423333	153.508667	0.000004	1.286333	
HISPANICS	0.000495	0.000973	324.462667	159.342667	0.000004	1.466333	
NON-HISPANIC WHITES	0.000491	0.000907	302.492000	138.739000	0.000004	1.173333	
NON-HISPANIC BLACKS	0.000334	0.000681	227.149333	115.904000	0.000003	1.079000	
NON-HISPANICS OTHER	0.000454	0.000870	290.007667	138.768000	0.000004	1.296333	
NURSING INFANTS (<1 YEAR OLD)	0.003012	0.003362	1120.522000	116.596333	0.000005	1.638000	
NON-NURSING INFANTS (<1 YEAR OLD)	0.004162	0.005619	1873.046000	485.568333	0.000016	5.457000	
FEMALES (13+ YEARS, PREGNANT)	0.000301	0.000583	194.311333	93.988667	0.000002	0.826000	
FEMALES 13+ YEARS, NURSING	0.000404	0.000752	250.607667	116.019000	0.000003	1.011000	
CHILDREN (1-6 YEARS OLD)	0.001652	0.002849	949.642667	399.035333	0.000009	3.130333	
CHILDREN (7-12 YEARS OLD)	0.000674	0.001317	438.925000	214.315000	0.000006	1.904667	
MALES (13-19 YEARS OLD)	0.000288	0.000709	236.219667	140.239000	0.000004	1.249667	
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)	0.000302	0.000625	208.245333	107.628333	0.000003	0.971667	
MALES (20 YEARS AND OLDER)	0.000210	0.000472	157.311000	87.442667	0.000002	0.769667	
FEMALES (20 YEARS AND OLDER)	0.000239	0.000478	159.345667	79.668000	0.000002	0.672333	

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

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Rally (Systhane) Caswell #723K CAS No. 88671-89-0 A.I. CODE: 128857 CFR No. 180.	90d feeding- dog NOEL= 0.3000 mg/kg 0.00 ppm 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.

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%FD
04001AA	APPLES-FRESH	0.500000	P	0.228364	76.121333	0.000250	0.000077	0.025667
	10 RAW-FRESH OR NFS					0.000250	0.000002	0.000667
	21 COOKED-NFS					0.000250	0.000030	0.010000
	31 COOKED-FRESH OR CANNED					0.000250	0.000006	0.002000
04001DA	APPLES-DRIED	0.500000	P	0.000826	0.275333	0.000250	0.000000	0.000000
	10 RAW-FRESH OR NFS					0.000250	0.000000	0.000000
	22 COOKED-FRESH-BAKED					0.000250	0.000000	0.000000
	62 COOKED-FRESH OR FROZEN-BAKED					0.000250	0.000000	0.000000
04001JA	APPLES-JUICE	0.500000	P	0.166237	55.412333	0.000250	0.000064	0.021333
	15 RAW-FRESH OR CANNED					0.000250	0.000019	0.006333
	31 COOKED-FRESH OR CANNED							
CROP GROUP TOTALS FOR POME FRUITS:				0.395427	131.809000		0.000198	0.066000
01014AA	GRAPES-FRESH	0.500000	P	0.021897	7.299000	0.000100	0.000002	0.000667
	10 RAW-FRESH OR NFS					0.000100	0.000000	0.000000
	21 COOKED-NFS					0.000100	0.000002	0.000667
	31 COOKED-FRESH OR CANNED							
01014DA	GRAPES-RAISINS	5.000000	N	0.084865	28.288333	0.001000	0.000044	0.014667
	10 RAW-FRESH OR NFS					0.001000	0.000004	0.001333
	21 COOKED-NFS					0.001000	0.000025	0.008333
	22 COOKED-FRESH-BAKED							
01014JA	GRAPES-JUICE	0.500000	P	0.054058	18.019333	0.000100	0.000001	0.000333
	10 RAW-FRESH OR NFS					0.000100	0.000009	0.003000
	15 RAW-FRESH OR CANNED					0.000100	0.000000	0.000000
	21 COOKED-NFS							
CROP GROUP TOTALS FOR SMALL FRUITS AND BERRIES:				0.160820	53.606667		0.000087	0.029000
53001BA	BEEF-MEAT BYPRODUCTS	0.040000	N	0.000706	0.235333	0.000400	0.000007	0.002333
	21 COOKED-NFS					0.000400	0.000001	0.000333
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED							
53001BB	BEEF(ORGAN MEATS)-OTHER	0.040000	N	0.000241	0.080333	0.000400	0.000002	0.000667
	21 COOKED-NFS					0.000400	0.000000	0.000000
	51 COOKED-CANNED							
53001DA	BEEF-DRIED	0.040000	N	0.000101	0.033667	0.000400	0.000001	0.000333
	21 COOKED-NFS							
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW)	0.040000	N	0.014883	4.961000	0.000400	0.000001	0.000333
	10 RAW-FRESH OR NFS					0.000400	0.000059	0.019667
	21 COOKED-NFS							

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

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC TYPE (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD	
53001KA	22 COOKED-FRESH-BAKED	0.040000	N	0.000019	0.006333	0.000400	0.000010	0.003333
	23 COOKED-FRESH-BOILED					0.000400	0.000013	0.004333
	24 COOKED-FRESH-BROILED					0.000400	0.000057	0.019000
	25 COOKED-FRESH-FRIED					0.000400	0.000009	0.003000
53001LA	BEEF(ORGAN MEATS)-KIDNEY	0.200000	N	0.004140	1.380000	0.000400	0.000000	0.000000
	BEEF(ORGAN MEATS)-LIVER					0.002000	0.000041	0.013667
53001MA	25 COOKED-FRESH-FRIED	0.040000	N	0.046480	15.493333	0.002000	0.000001	0.000333
	31 COOKED-FRESH OR CANNED					0.002000	0.000000	0.000000
	BEEF(BONELESS)-LEAN (W/O REMOVABLE FAT)					0.000400	0.000000	0.000000
	10 RAW-FRESH OR NFS					0.000400	0.000277	0.092333
	21 COOKED-NFS					0.000400	0.000019	0.006333
53002BA	22 COOKED-FRESH-BAKED	0.040000	N	0.000000	0.000000	0.000400	0.000029	0.009667
	23 COOKED-FRESH-BOILED					0.000400	0.000139	0.046333
	24 COOKED-FRESH-BROILED					0.000400	0.000000	0.000000
53002BBA	GOAT-MEAT BYPRODUCTS	0.040000	N	0.000000	0.000000	0.000400	0.000000	0.000000
53002BB	GOAT(ORGAN MEATS)-OTHER	0.040000	N	0.000000	0.000000	0.000400	0.000000	0.000000
53002FA	GOAT(BONELESS)-FAT	0.040000	N	0.000002	0.000667	0.000400	0.000000	0.000000
53002KA	23 COOKED-FRESH-BOILED	0.040000	N	0.000000	0.000000	0.000400	0.000000	0.000000
	25 COOKED-FRESH-FRIED					0.000400	0.000000	0.000000
53002LA	GOAT(ORGAN MEATS)-KIDNEY	0.040000	N	0.000000	0.000000	0.000400	0.000000	0.000000
53002MA	GOAT(ORGAN MEATS)-LIVER	0.200000	N	0.000000	0.000000	0.002000	0.000000	0.000000
	GOAT(BONELESS)-LEAN (W/O REMOVABLE FAT)					0.002667	0.000000	0.000000
53003AA	23 COOKED-FRESH-BOILED	0.040000	N	0.000008	0.002667	0.000400	0.000000	0.000000
	25 COOKED-FRESH-FRIED					0.000400	0.000000	0.000000
53005BA	HORSE	0.040000	N	0.000000	0.000000	0.000400	0.000000	0.000000
53005BB	00 NOT SPECIFIED (NO CONSUMPTION)	0.040000	N	0.000002	0.000667	0.000400	0.000000	0.000000
	21 COOKED-NFS					0.000400	0.000000	0.000000
53005FA	SHEEP(ORGAN MEATS)-OTHER	0.040000	N	0.000001	0.000333	0.000400	0.000000	0.000000
	21 COOKED-NFS					0.000400	0.000000	0.000000
53005KA	SHEEP(BONELESS)-FAT	0.040000	N	0.000172	0.057333	0.000400	0.000002	0.000667
	21 COOKED-NFS					0.000400	0.000000	0.000000
53005LA	SHEEP(ORGAN MEATS)-KIDNEY	0.200000	N	0.000000	0.000000	0.002000	0.000000	0.000000
	00 NOT SPECIFIED (NO CONSUMPTION)					0.002000	0.000000	0.000000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Rally (Systhane) Caswell #723K CAS No. 88671-89-0 A.I. CODE: 128857 CFR No. 180.	90d feeding- dog NOEL= 0.3000 mg/kg 0.00 ppm LEL= 5.9000 mg/kg 0.00 ppm ONCO: Pending.	Hepatocellular hypertro- phy. 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.

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
53005MA	SHEEP(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.040000	N	0.000499	0.166333	0.000400	0.000005	0.001667
	21 COOKED-NFS					0.000400	0.000000	0.000000
53006BA	PORK-HEAT BYPRODUCTS	0.040000	N	0.001003	0.334333	0.000400	0.000010	0.003333
	21 COOKED-NFS					0.000400	0.000001	0.000333
53006BB	PORK(ORGAN MEATS)-OTHER	0.040000	N	0.000154	0.051333	0.000400	0.000000	0.000000
	21 COOKED-NFS					0.000400	0.000001	0.000333
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD)	0.040000	N	0.008328	2.776000	0.000400	0.000039	0.013000
	10 RAW-FRESH OR NFS					0.000400	0.000009	0.003000
	21 COOKED-NFS					0.000400	0.000010	0.003333
	23 COOKED-FRESH-BOILED					0.000400	0.000025	0.008333
53006KA	PORK(ORGAN MEATS)-KIDNEY	0.040000	N	0.000000	0.000000	0.000400	0.000000	0.000000
	21 COOKED-NFS					0.000400	0.000009	0.003000
53006LA	PORK(ORGAN MEATS)-LIVER	0.200000	N	0.000964	0.321333	0.002000	0.000001	0.000333
	21 COOKED-NFS					0.002000	0.000001	0.000333
53006MA	PORK(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.040000	N	0.015650	5.216667	0.000400	0.000073	0.024333
	21 COOKED-NFS					0.000400	0.000019	0.006333
	25 COOKED-FRESH-FRIED					0.000400	0.000065	0.021667
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED							
CROP GROUP TOTALS FOR RED MEAT:					0.093353	31.117667	0.000935	0.311667
55008BA	TURKEY-BYPRODUCTS	0.020000	N	0.000005	0.001667	0.000200	0.000000	0.000000
	21 COOKED-NFS					0.000200	0.000000	0.000000
55008LA	TURKEY-GIBLETS (LIVER)	0.020000	N	0.000001	0.000333	0.000200	0.000000	0.000000
	21 COOKED-NFS					0.000200	0.000000	0.000000
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES)	0.020000	N	0.000159	0.053000	0.000200	0.000001	0.000333
	21 COOKED-NFS					0.000200	0.000000	0.000000
	31 COOKED-FRESH OR CANNED					0.000200	0.000000	0.000000
55008MB	TURKEY-FLESH(+SKIN, W/O BONES)	0.020000	N	0.000963	0.321000	0.000200	0.000009	0.003000
	21 COOKED-NFS					0.000200	0.000001	0.000333
55008MC	TURKEY-UNSPECIFIED	0.020000	N	0.000002	0.000667	0.000200	0.000000	0.000000
	21 COOKED-NFS					0.000200	0.000000	0.000000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Rally (Systhane) Caswell #723K CAS No. 88671-89-0 A.I. CODE: 128857 CFR No. 180.	90d feeding- dog NOEL= 0.3000 mg/kg 0.00 ppm LEL= 5.9000 mg/kg 0.00 ppm ONCO: Pending.	Hepatocellular hypertro- phy. 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.

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%FD
55013BA	POULTRY, OTHER-BYPRODUCTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.020000	N	0.000000	0.000000	0.000200	0.000000	0.000000
55013LA	POULTRY, OTHER-GIBLETS(LIVER) 25 COOKED-FRESH-FRIED	0.020000	N	0.000005	0.001667	0.000200	0.000000	0.000000
55013MA	POULTRY, OTHER-FLESH (+SKIN, W/O BONES) 21 COOKED-NFS	0.020000	N	0.000108	0.036000	0.000200	0.000001	0.000333
55015BA	CHICKEN-BYPRODUCTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.020000	N	0.000000	0.000000	0.000200	0.000000	0.000000
55015LA	CHICKEN-GIBLETS(LIVER) 21 COOKED-NFS	0.020000	N	0.000101	0.033667	0.000200	0.000000	0.000000
55015MA	CHICKEN-FLESH(W/O SKIN, W/O BONES) 26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0.020000	N	0.001203	0.401000	0.000200	0.000001	0.000333
55015MB	CHICKEN-FLESH(+SKIN, W/O BONES) 21 COOKED-NFS 25 COOKED-FRESH-FRIED	0.020000	N	0.007586	2.528667	0.000200	0.000041	0.013667
CROP GROUP TOTALS FOR POULTRY:		0.010133		3.377667		0.000101		0.033667
500000B	MILK-NON-FAT SOLIDS 10 RAW-FRESH OR NFS 21 COOKED-NFS 51 COOKED-CANNED	0.020000	N	0.142727	47.575667	0.000200	0.001141	0.380333
50000FA	MILK-FAT SOLIDS 10 RAW-FRESH OR NFS 21 COOKED-NFS 51 COOKED-CANNED	0.020000	N	0.067896	22.632000	0.000200	0.000051	0.017000
50000SA	MILK SUGAR (LACTOSE) 21 COOKED-NFS 51 COOKED-CANNED	0.020000	N	0.000749	0.249667	0.000200	0.000000	0.000000
55014AA	EGGS-WHOLE 10 RAW-FRESH OR NFS 21 COOKED-NFS 22 COOKED-FRESH-BAKED 23 COOKED-FRESH-BOILED 25 COOKED-FRESH-FRIED	0.020000	N	0.011290	3.763333	0.000200	0.000001	0.000333

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Rally (Systhane) Caswell #723K CAS No. 88671-89-0 A.I. CODE: 128857 CFR No. 180.	90d feeding- dog NOEL= 0.3000 mg/kg 0.00 ppm LEL= 5.9000 mg/kg 0.00 ppm ONCO: Pending.	Hepatocellular hypertro- phy. 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 Teratology- rabbit Mouse oncogenicity (studies under review)	TOX complete 4/10/87. ORD not scheduled.

COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
55014AB	EGGS-WHITE ONLY	0.020000	N	0.000184	0.061333	0.000200	0.000000	0.000000
	10 RAW-FRESH OR NFS					0.000200	0.000000	0.000000
	21 COOKED-NFS					0.000200	0.000001	0.000333
	22 COOKED-FRESH-BAKED					0.000200	0.000000	0.000000
	62 COOKED-FRESH OR FROZEN-BAKED					0.000200	0.000000	0.000000
	81 COOKED-FROZEN					0.000200	0.000000	0.000000
55014AC	EGGS-YOLK ONLY	0.020000	N	0.000133	0.044333	0.000200	0.000000	0.000000
	10 RAW-FRESH OR NFS					0.000200	0.000000	0.000000
	21 COOKED-NFS					0.000200	0.000001	0.000333
	25 COOKED-FRESH-FRIED					0.000200	0.000000	0.000000
	31 COOKED-FRESH OR CANNED					0.000200	0.000000	0.000000
CROP GROUP TOTALS FOR DAIRY PRODUCTS:		0.222979		74.326333		0.002222		0.740667

TOLERANCE TYPE: N=NEW; A=PENDING; P=PUBLISHED
 TMRC=THEORETICAL MAXIMUM RESIDUE CONTRIBUTION
 ARC = ANTICIPATED RESIDUE CONTRIBUTION
 RFD = REFERENCE DOSE

TOLERANCE ASSESSMENT SYSTEM ROUTINE CHRONIC ANALYSIS

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

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
04001AA	APPLES-FRESH	0.500000	P	0.613856	204.618667	0.000250	0.000218	0.072667
	10 RAW-FRESH OR NFS					0.000250	0.000002	0.000667
	21 COOKED-NFS					0.000250	0.000080	0.026667
	31 COOKED-FRESH OR CANNED					0.000250	0.000007	0.002333
04001DA	APPLES-DRIED	0.500000	P	0.001364	0.454667	0.000250	0.000001	0.000333
	10 RAW-FRESH OR NFS					0.000250	0.000000	0.000000
	22 COOKED-FRESH-BAKED					0.000250	0.000000	0.000000
04001JA	APPLES-JUICE	0.500000	P	0.745502	248.500667	0.000250	0.000330	0.110000
	15 RAW-FRESH OR CANNED					0.000250	0.000043	0.014333
	31 COOKED-FRESH OR CANNED							
CROP GROUP TOTALS FOR POME FRUITS:				1.360722	453.574000		0.000681	0.227000
01014AA	GRAPES-FRESH	0.500000	P	0.065181	21.727000	0.000100	0.000006	0.002000
	10 RAW-FRESH OR NFS					0.000100	0.000000	0.000000
	21 COOKED-NFS					0.000100	0.000006	0.002000
01014DA	GRAPES-RAISINS	5.000000	N	0.360554	120.184667	0.001000	0.000242	0.080667
	10 RAW-FRESH OR NFS					0.001000	0.000006	0.002000
	21 COOKED-NFS					0.001000	0.000062	0.020667
	22 COOKED-FRESH-BAKED							
01014JA	GRAPES-JUICE	0.500000	P	0.225919	75.306333	0.000100	0.000004	0.001333
	10 RAW-FRESH OR NFS					0.000100	0.000040	0.013333
	15 RAW-FRESH OR CANNED					0.000100	0.000001	0.000333
	21 COOKED-NFS							
CROP GROUP TOTALS FOR SMALL FRUITS AND BERRIES:				0.651654	217.218000		0.000367	0.122333
53001BA	BEEF-MEAT BYPRODUCTS	0.040000	N	0.001994	0.664667	0.000400	0.000019	0.006333
	21 COOKED-NFS					0.000400	0.000001	0.000333
53001BB	BEEF-COOKED-FRESH-PICKLED, CORNED, OR CURED	0.040000	N	0.000544	0.181333	0.000400	0.000004	0.001333
	21 COOKED-NFS					0.000400	0.000001	0.000333
	51 COOKED-CANNED							
53001DA	BEEF-DRIED	0.040000	N	0.000238	0.079333	0.000400	0.000002	0.000667
	21 COOKED-NFS					0.000400	0.000001	0.000333
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW)	0.040000	N	0.026770	8.923333	0.000400	0.000001	0.000333
	10 RAW-FRESH OR NFS					0.000400	0.000121	0.040333
	21 COOKED-NFS							

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

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC TYPE (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
53001KA	22 COOKED-FRESH-BAKED				0.000400	0.000022	0.007333
	23 COOKED-FRESH-BOILED				0.000400	0.013333	0.000040
	24 COOKED-FRESH-BROILED				0.000400	0.000070	0.023333
	25 COOKED-FRESH-FRIED				0.000400	0.000014	0.004667
53001LA	BEEF(ORGAN MEATS)-KIDNEY	0.040000	N	0.000076	0.025333		
	21 COOKED-MFS				0.000400	0.000001	0.000333
53001MA	BEEF(ORGAN MEATS)-LIVER	0.200000	N	0.005656	1.885333		
	25 COOKED-FRESH-FRIED				0.002000	0.000057	0.019000
	31 COOKED-FRESH OR CANNED				0.002000	0.000000	0.000000
	BEEF(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.040000	N	0.083907	27.969000		
53002BA	10 RAW-FRESH OR MFS				0.000400	0.000000	0.000000
	21 COOKED-MFS				0.000400	0.000551	0.183667
	22 COOKED-FRESH-BAKED				0.000400	0.000039	0.013000
	23 COOKED-FRESH-BOILED				0.000400	0.000076	0.025333
53002BB	24 COOKED-FRESH-BROILED				0.000400	0.000172	0.057333
	GOAT-MEAT BYPRODUCTS	0.040000	N	0.000000	0.000000		
	00 NOT SPECIFIED (NO CONSUMPTION)				0.000400	0.000000	0.000000
	GOAT(ORGAN MEATS)-OTHER	0.040000	N	0.000000	0.000000		
53002FA	00 NOT SPECIFIED (NO CONSUMPTION)				0.000400	0.000000	0.000000
	GOAT(BONELESS)-FAT	0.040000	N	0.000000	0.000000		
	23 COOKED-FRESH-BOILED				0.000400	0.000000	0.000000
	25 COOKED-FRESH-FRIED				0.000400	0.000000	0.000000
53002KA	GOAT(ORGAN MEATS)-KIDNEY	0.040000	N	0.000000	0.000000		
	00 NOT SPECIFIED (NO CONSUMPTION)				0.000400	0.000000	0.000000
53002LA	GOAT(ORGAN MEATS)-LIVER	0.200000	N	0.000000	0.000000		
	00 NOT SPECIFIED (NO CONSUMPTION)				0.002000	0.000000	0.000000
53002MA	GOAT(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.040000	N	0.000000	0.000000		
	23 COOKED-FRESH-BOILED				0.000400	0.000000	0.000000
	25 COOKED-FRESH-FRIED				0.000400	0.000000	0.000000
	HORSE	0.040000	N	0.000000	0.000000		
53003AA	00 NOT SPECIFIED (NO CONSUMPTION)				0.000400	0.000000	0.000000
	SHEEP-MEAT BYPRODUCTS	0.040000	N	0.000000	0.000000		
53005BA	21 COOKED-MFS	0.040000	N	0.000000	0.000000		
	SHEEP(ORGAN MEATS)-OTHER	0.040000	N	0.000000	0.000000		
53005BB	21 COOKED-MFS	0.040000	N	0.000000	0.000000		
	SHEEP(BONELESS)-FAT	0.040000	N	0.000151	0.050333		
53005FA	21 COOKED-MFS	0.040000	N	0.000000	0.000400	0.000002	0.000667
	SHEEP(ORGAN MEATS)-KIDNEY	0.040000	N	0.000000	0.000400	0.000000	0.000000
53005KA	21 COOKED-MFS	0.040000	N	0.000000	0.000400	0.000000	0.000000
	SHEEP(ORGAN MEATS)-LIVER	0.200000	N	0.000000	0.002000	0.000000	0.000000

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

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOOD FORM	TOLERANCE (PPM)	TYPE	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
53005MA	SHEEP (BONELESS)-LEAN (W/O REMOVEABLE FAT	0.040000	N	0.000469	0.156333	0.000400	0.000004	0.001333
	21 COOKED-NFS					0.000400	0.000001	0.000333
53006BA	PORK-MEAT BYPRODUCTS	0.040000	N	0.002402	0.800667	0.000400	0.000024	0.008000
	21 COOKED-NFS					0.000400	0.000003	0.001000
53006BB	PORK(ORGAN MEATS)-OTHER	0.040000	N	0.000344	0.114667	0.000400	0.000000	0.000000
	21 COOKED-NFS					0.000400	0.000001	0.000333
53006FA	26 COOKED-FRESH-PICKLED, CORNED, OR CURED					0.000400	0.000077	0.025667
	10 RAW-FRESH OR NFS	0.040000	N	0.017030	5.676667	0.000400	0.000032	0.010667
	21 COOKED-NFS					0.000400	0.000021	0.007000
	23 COOKED-FRESH-BOILED					0.000400	0.000040	0.013333
53006KA	26 COOKED-FRESH-FRIED					0.000400	0.000000	0.000000
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED					0.000400	0.000015	0.005000
53006LA	PORK(ORGAN MEATS)-KIDNEY	0.040000	N	0.000000	0.000000	0.000400	0.000000	0.000000
	21 COOKED-NFS					0.002000	0.000015	0.005000
53006MA	PORK(ORGAN MEATS)-LIVER	0.200000	N	0.001595	0.531667	0.002000	0.000000	0.000000
	21 COOKED-NFS					0.002000	0.000000	0.000000
53006MA	25 COOKED-FRESH-FRIED					0.002000	0.000000	0.000000
	25 COOKED-FRESH-FRIED	0.040000	N	0.027893	9.297667	0.000400	0.000139	0.046333
	21 COOKED-NFS					0.000400	0.000039	0.013000
	25 COOKED-FRESH-FRIED					0.000400	0.000101	0.033667
	26 COOKED-FRESH-PICKLED, CORNED, OR CURED					0.000400	0.000101	0.033667
CROP GROUP TOTALS FOR RED MEAT:					0.169069	56.356333	0.001690	0.563333
55008BA	TURKEY-BYPRODUCTS	0.020000	N	0.000009	0.003000	0.000200	0.000000	0.000000
	21 COOKED-NFS					0.000200	0.000000	0.000000
55008LA	26 COOKED-FRESH-PICKLED, CORNED, OR CURED					0.000200	0.000000	0.000000
	TURKEY-GIBLETS (LIVER)	0.020000	N	0.000000	0.000000	0.000200	0.000000	0.000000
	21 COOKED-NFS					0.000200	0.000000	0.000000
55008MA	25 COOKED-FRESH-FRIED					0.000200	0.000000	0.000000
	TURKEY-FLESH(W/O SKIN, W/O BONES)	0.020000	N	0.000232	0.077333	0.000200	0.000000	0.000000
	21 COOKED-NFS					0.000200	0.000001	0.000333
	31 COOKED-FRESH OR CANNED					0.000200	0.000001	0.000333
55008MB	62 COOKED-FRESH OR FROZEN-BAKED					0.000200	0.000000	0.000000
	TURKEY-FLESH(+SKIN, W/O BONES)	0.020000	N	0.001612	0.537333	0.000200	0.000014	0.004667
	21 COOKED-NFS					0.000200	0.000002	0.000667
55008MC	25 COOKED-FRESH-FRIED					0.000200	0.000000	0.000000
	TURKEY-UNSPECIFIED	0.020000	N	0.000005	0.001667	0.000200	0.000000	0.000000
	21 COOKED-NFS					0.000200	0.000000	0.000000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS		STATUS
			PADI	1000	Chronic feeding- rat	Chronic feeding- dog	
Rally (Systhane) Caswell #723K CAS No. 88671-89-0 A.I. CODE: 128857 CFR No. 180.	90d feeding- dog NOEL= 0.3000 mg/kg 0.00 ppm LEL= 5.9000 mg/kg 0.00 ppm	Hepatocellular hypertro- phy. Oncogenicity studies in rat and mouse under review.	OPP RfD= 0.000360 EPA RfD= 0.000000	WHO RfD 0.000000	Mouse oncogenicity (studies under review)	Chronic feeding- dog Teratology- rabbit Mouse oncogenicity (studies under review)	TOX complete 4/10/87. ORD not scheduled.
ONCO: Pending.			Type:				

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
55013BA	POULTRY, OTHER-BYPRODUCTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.020000	N	0.000000	0.000000	0.000000	0.000000
55013LA	POULTRY, OTHER-GIBLETS(LIVER) 25 COOKED-FRESH-FRIED	0.020000	N	0.000002	0.000667	0.000000	0.000000
55013MA	POULTRY, OTHER-FLESH (+SKIN, W/O BONES) 21 COOKED-NFS	0.020000	N	0.000178	0.059333	0.000002	0.000667
55015BA	CHICKEN-BYPRODUCTS 00 NOT SPECIFIED (NO CONSUMPTION)	0.020000	N	0.000000	0.000000	0.000000	0.000000
55015LA	CHICKEN-GIBLETS(LIVER) 21 COOKED-NFS	0.020000	N	0.000171	0.057000	0.000000	0.000000
55015MA	CHICKEN-FLESH(W/O SKIN, W/O BONES) 26 COOKED-FRESH-PICKLED, CORNED, OR CURED	0.020000	N	0.002476	0.825333	0.000200	0.000001
55015MB	CHICKEN-FLESH(+SKIN, W/O BONES) 21 COOKED-NFS	0.020000	N	0.015938	5.312667	0.000200	0.000003
CROP GROUP TOTALS FOR POULTRY:		0.020623		6.874333		0.000204	0.068000
500000B	MILK-NON-FAT SOLIDS 10 RAW-FRESH OR NFS	0.020000	N	0.430242	143.414000	0.000200	0.003751
50000FA	MILK-FAT SOLIDS 10 RAW-FRESH OR NFS	0.020000	N	0.190507	63.502333	0.000200	0.000016
50000SA	MILK SUGAR (LACTOSE) 21 COOKED-NFS	0.020000	N	0.000112	0.037333	0.000200	0.000000
55014AA	EGGS-WHOLE 10 RAW-FRESH OR NFS	0.020000	N	0.025474	8.491333	0.000200	0.000002
	21 COOKED-NFS					0.000200	0.000156
	22 COOKED-FRESH-BAKED					0.000200	0.000025
	23 COOKED-FRESH-BOILED					0.000200	0.000006
	25 COOKED-FRESH-FRIED					0.000200	0.000067

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Rally (Systhane) Caswell #723K CAS No. 88671-89-0 A.I. CODE: 128857 CFR No. 180.	90d feeding- dog NOEL= 0.3000 mg/kg 0.00 ppm LEL= 5.9000 mg/kg 0.00 ppm ONCO: Pending.	Hepatocellular hypertro- phy. Oncogenicity studies in rat and mouse under review.	PA01 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. OND not scheduled.

COMMODITY CONTRIBUTION BY RAC FOR: CHILDREN (1-6 YEARS OLD)

FOOD CODE	FOODNAME/FOODFORM	TOLERANCE (PPM)	TMRC TYPE (UG/KG/DAY)	%RFD	ANTICIPATED RESIDUE (PPM)	ARC (UG/KG/DAY)	%RFD
55014AB	EGGS-WHITE ONLY						
	10 RAW-FRESH OR NFS	0.020000	N	0.000320	0.106667		
	21 COOKED-NFS				0.000200	0.000000	0.000000
	22 COOKED-FRESH-BAKED				0.000200	0.000003	0.001000
	62 COOKED-FRESH OR FROZEN-BAKED				0.000200	0.000000	0.000000
	81 COOKED-FROZEN				0.000200	0.000000	0.000000
55014AC	EGGS-YOLK ONLY						
	10 RAW-FRESH OR NFS	0.020000	N	0.000205	0.068333	0.000200	0.000000
	21 COOKED-NFS				0.000200	0.000000	0.000000
	25 COOKED-FRESH-FRIED				0.000200	0.000001	0.000333
	31 COOKED-FRESH OR CANNED				0.000200	0.000000	0.000000
CROP GROUP TOTALS FOR DAIRY PRODUCTS:				0.646860	215.620000	0.006449	2.149667

TOLERANCE TYPE: N=NEW; A=PENDING; P=PUBLISHED
 TMRC=THEORETICAL MAXIMUM RESIDUE CONTRIBUTION
 ARC = ANTICIPATED RESIDUE CONTRIBUTION
 RFD = REFERENCE DOSE