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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 9/9/87
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 deficiences 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 implememtation 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 Toxcology 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 statment 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 <u>only for this EUP</u> 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 percise 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 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	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	4G3149	0.500000	0.500000		0.02	0.000100
01014AA	GRAPES-FRESH	21 COOKED-NFS	4G3149	0.500000	0.500000		0.02	0.000100
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	4G3149	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	4G3149	0.500000	0.500000		0.02	0.000100
01014JA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	4G3149	0.500000	0.500000		0.02	0.000100
01014JA	GRAPES-JUICE	21 COOKED-NFS	4G3149	0.500000	0.500000		0.02	0.000100
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	4G3149	0.500000	0.500000		0.05	0.000250
04001AA	APPLES-FRESH	21 COOKED-NFS	4G3149	0.500000	0.500000		0.05	0.000250
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	4G3149	0.500000	0.500000		0.05	0.000250
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	4G3149	0.500000	0.500000		0.05	0.000250
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	4G3149	0.500000	0.500000		0.05	0.000250
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	4G3149	0.500000	0.500000		0.05	0.000250
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	4G3149	0.500000	0.500000		0.05	0.000250
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	4G3149	0.500000	0.500000		0.05	0.000250
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	4G3149	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-OTH ORGAN	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53001BB	BEEF-OTH 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

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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	7G3479	0.040000	0.040000		1.00	0.000400
53001MA	BEEF-LEAN	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	7G3479	0.040000	0.040000		1.00	0.000400
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	7G3479	0.040000	0.040000		1.00	0.000400
53001MA	BEEF-LEAN	24 COOKED-FRESH-BROILED	7G3479	0.040000	0.040000		1.00	0.000400
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	7G3479	0.040000	0.040000		1.00	0.000400
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	7G3479	0.040000	0.040000		1.00	0.000400
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	7G3479	0.040000	0.040000		1.00	0.000400
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	7G3479	0.040000	0.040000		1.00	0.000400
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	7G3479	0.040000	0.040000		1.00	0.000400
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	7G3479	0.200000	0.200000		1.00	0.002000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	7G3479	0.040000	0.040000		1.00	0.000400
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	7G3479	0.040000	0.040000		1.00	0.000400
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	7G3479	0.040000	0.040000		1.00	0.000400
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53005FA	SHEEP-FAT	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	7G3479	0.200000	0.200000		1.00	0.002000
53005MA	SHEEP-LEAN	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	7G3479	0.040000	0.040000		1.00	0.000400
53006BA	PORK-MEAT BYP	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53006BB	PORK-OTH ORGAN	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED,CORNED,OR CURED	7G3479	0.040000	0.040000		1.00	0.000400
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	7G3479	0.040000	0.040000		1.00	0.000400
53006FA	PORK-FAT	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	7G3479	0.040000	0.040000		1.00	0.000400
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	7G3479	0.040000	0.040000		1.00	0.000400
53006FA	PORK-FAT	26 COOKED-FRESH-PICKLED,CORNED,OR CURED	7G3479	0.040000	0.040000		1.00	0.000400
53006KA	PORK-KIDNEY	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53006LA	PORK-LIVER	21 COOKED-NFS	7G3479	0.200000	0.200000		1.00	0.002000
53006LA	PORK-LIVER	25 COOKED-FRESH-FRIED	7G3479	0.200000	0.200000		1.00	0.002000
53006MA	PORK-LEAN	21 COOKED-NFS	7G3479	0.040000	0.040000		1.00	0.000400
53006MA	PORK-LEAN	25 COOKED-FRESH-FRIED	7G3479	0.040000	0.040000		1.00	0.000400
53006MA	PORK-LEAN	26 COOKED-FRESH-PICKLED,CORNED,OR CURED	7G3479	0.040000	0.040000		1.00	0.000400
55008BA	TURKEY-BYP	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
55008BA	TURKEY-BYP	26 COOKED-FRESH-PICKLED,CORNED,OR CURED	7G3479	0.020000	0.020000		1.00	0.000200
55008LA	TURKEY ORGAN	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
55008LA	TURKEY ORGAN	25 COOKED-FRESH-FRIED	7G3479	0.020000	0.020000		1.00	0.000200
55008MA	TURKEY W/O SKIN	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200

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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)
55008MA	TURKEY W/O SKIN	31 COOKED-FRESH OR CANNED	7G3479	0.020000	0.020000		1.00	0.000200
55008MA	TURKEY W/O SKIN	62 COOKED-FRESH OR FROZEN-BAKED	7G3479	0.020000	0.020000		1.00	0.000200
55008MB	TURKEY+SKIN	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
55008MB	TURKEY+SKIN	25 COOKED-FRESH-FRIED	7G3479	0.020000	0.020000		1.00	0.000200
55008MC	TURKEY-UNSPEC	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
55013BA	POULTRY,OTH-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	7G3479	0.020000	0.020000		1.00	0.000200
55013LA	POULTRY,ORGAN	25 COOKED-FRESH-FRIED	7G3479	0.020000	0.020000		1.00	0.000200
55013MA	POULTRY,OTHER	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
55014AA	EGGS-WHOLE	10 RAW-FRESH OR NFS	7G3479	0.020000	0.020000		1.00	0.000200
55014AA	EGGS-WHOLE	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
55014AA	EGGS-WHOLE	22 COOKED-FRESH-BAKED	7G3479	0.020000	0.020000		1.00	0.000200
55014AA	EGGS-WHOLE	23 COOKED-FRESH-BOILED	7G3479	0.020000	0.020000		1.00	0.000200
55014AA	EGGS-WHOLE	25 COOKED-FRESH-FRIED	7G3479	0.020000	0.020000		1.00	0.000200
55014AB	EGGS-WHITE ONLY	10 RAW-FRESH OR NFS	7G3479	0.020000	0.020000		1.00	0.000200
55014AB	EGGS-WHITE ONLY	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
55014AB	EGGS-WHITE ONLY	22 COOKED-FRESH-BAKED	7G3479	0.020000	0.020000		1.00	0.000200
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	7G3479	0.020000	0.020000		1.00	0.000200
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	7G3479	0.020000	0.020000		1.00	0.000200
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	7G3479	0.020000	0.020000		1.00	0.000200
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	7G3479	0.020000	0.020000		1.00	0.000200
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	7G3479	0.020000	0.020000		1.00	0.000200
55015BA	CHICKEN-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	7G3479	0.020000	0.020000		1.00	0.000200
55015LA	CHICKEN-ORGAN	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	7G3479	0.020000	0.020000		1.00	0.000200
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED,CORNED,OR CURED	7G3479	0.020000	0.020000		1.00	0.000200
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	7G3479	0.020000	0.020000		1.00	0.000200
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	7G3479	0.020000	0.020000		1.00	0.000200
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	7G3479	0.020000	0.020000		1.00	0.000200
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	7G3479	0.020000	0.020000		1.00	0.000200
55015MB	CHICKEN+SKIN	21 COOKED-NFS	7G3479	0.020000	0.020000		1.00	0.000200
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	7G3479	0.020000	0.020000		1.00	0.000200

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POPULATION SUBGROUP	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 (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.

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)	%RFD
04001AA	APPLES-FRESH	0.500000	P	0.228364	76.121333			
	10 RAW-FRESH OR NFS					0.000250	0.000077	0.025667
	21 COOKED-NFS					0.000250	0.000002	0.000667
	31 COOKED-FRESH OR CANNED					0.000250	0.000030	0.010000
	62 COOKED-FRESH OR FROZEN-BAKED					0.000250	0.000006	0.002000
04001DA	APPLES-DRIED	0.500000	P	0.000826	0.275333			
	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			
	15 RAW-FRESH OR CANNED					0.000250	0.000064	0.021333
	31 COOKED-FRESH OR CANNED					0.000250	0.000019	0.006333
	CROP GROUP TOTALS FOR POME FRUITS:			0.395427	131.809000		0.000198	0.066000
01014AA	GRAPES-FRESH	0.500000	P	0.021897	7.299000			
	10 RAW-FRESH OR NFS					0.000100	0.000002	0.000667
	21 COOKED-NFS					0.000100	0.000000	0.000000
	31 COOKED-FRESH OR CANNED					0.000100	0.000002	0.000667
01014DA	GRAPES-RAISINS	5.000000	N	0.084865	28.288333			
	10 RAW-FRESH OR NFS					0.001000	0.000044	0.014667
	21 COOKED-NFS					0.001000	0.000004	0.001333
	22 COOKED-FRESH-BAKED					0.001000	0.000025	0.008333
01014JA	GRAPES-JUICE	0.500000	P	0.054058	18.019333			
	10 RAW-FRESH OR NFS					0.000100	0.000001	0.000333
	15 RAW-FRESH OR CANNED					0.000100	0.000009	0.003000
	21 COOKED-NFS					0.000100	0.000000	0.000000
	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			
	21 COOKED-NFS					0.000400	0.000007	0.002333
	26 COOKED-FRESH-PICKLED,CORNED,OR CURED					0.000400	0.000001	0.000333
53001BB	BEEF(ORGAN MEATS)-OTHER	0.040000	N	0.000241	0.080333			
	21 COOKED-NFS					0.000400	0.000002	0.000667
	51 COOKED-CANNED					0.000400	0.000000	0.000000
53001DA	BEEF-DRIED	0.040000	N	0.000101	0.033667			
	21 COOKED-NFS					0.000400	0.000001	0.000333
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW)	0.040000	N	0.014883	4.961000			
	10 RAW-FRESH OR NFS					0.000400	0.000001	0.000333
	21 COOKED-NFS					0.000400	0.000059	0.019667

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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COMMODITY CONTRIBUTION BY RAC FOR: U.S. POPULATION - 48 STATES

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

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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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			
	21 COOKED-NFS					0.000400	0.000005	0.001667
	31 COOKED-FRESH OR CANNED					0.000400	0.000000	0.000000
53006BA	PORK-MEAT BYPRODUCTS	0.040000	N	0.001003	0.334333			
	21 COOKED-NFS					0.000400	0.000010	0.003333
53006BB	PORK(ORGAN MEATS)-OTHER	0.040000	N	0.000154	0.051333			
	21 COOKED-NFS					0.000400	0.000001	0.000333
	26 COOKED-FRESH-PICKLED,CORNED,OR CURED					0.000400	0.000000	0.000000
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD)	0.040000	N	0.008328	2.776000			
	10 RAW-FRESH OR NFS					0.000400	0.000001	0.000333
	21 COOKED-NFS					0.000400	0.000039	0.013000
	23 COOKED-FRESH-BOILED					0.000400	0.000009	0.003000
	25 COOKED-FRESH-FRIED					0.000400	0.000010	0.003333
	26 COOKED-FRESH-PICKLED,CORNED,OR CURED					0.000400	0.000025	0.008333
53006KA	PORK(ORGAN MEATS)-KIDNEY	0.040000	N	0.000000	0.000000			
	21 COOKED-NFS					0.000400	0.000000	0.000000
53006LA	PORK(ORGAN MEATS)-LIVER	0.200000	N	0.000964	0.321333			
	21 COOKED-NFS					0.002000	0.000009	0.003000
	25 COOKED-FRESH-FRIED					0.002000	0.000001	0.000333
53006MA	PORK(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.040000	N	0.015650	5.216667			
	21 COOKED-NFS					0.000400	0.000073	0.024333
	25 COOKED-FRESH-FRIED					0.000400	0.000019	0.006333
	26 COOKED-FRESH-PICKLED,CORNED,OR CURED					0.000400	0.000065	0.021667
	CROP GROUP TOTALS FOR RED MEAT:			0.093353	31.117667		0.000935	0.311667
55008BA	TURKEY-BYPRODUCTS	0.020000	N	0.000005	0.001667			
	21 COOKED-NFS					0.000200	0.000000	0.000000
	26 COOKED-FRESH-PICKLED,CORNED,OR CURED					0.000200	0.000000	0.000000
55008LA	TURKEY-GIBLETS (LIVER)	0.020000	N	0.000001	0.000333			
	21 COOKED-NFS					0.000200	0.000000	0.000000
	25 COOKED-FRESH-FRIED					0.000200	0.000000	0.000000
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES)	0.020000	N	0.000159	0.053000			
	21 COOKED-NFS					0.000200	0.000001	0.000333
	31 COOKED-FRESH OR CANNED					0.000200	0.000000	0.000000
	62 COOKED-FRESH OR FROZEN-BAKED					0.000200	0.000000	0.000000
55008MB	TURKEY-FLESH(+SKIN,W/O BONES)	0.020000	N	0.000963	0.321000			
	21 COOKED-NFS					0.000200	0.000009	0.003000
	25 COOKED-FRESH-FRIED					0.000200	0.000001	0.000333
55008MC	TURKEY-UNSPECIFIED	0.020000	N	0.000002	0.000667			
	21 COOKED-NFS					0.000200	0.000000	0.000000

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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
55013BA	POULTRY,OTHER-BYPRODUCTS	0.020000	N	0.000000	0.000000			
	00 NOT SPECIFIED (NO CONSUMPTION)					0.000200	0.000000	0.000000
55013LA	POULTRY,OTHER-GIBLETS(LIVER)	0.020000	N	0.000005	0.001667			
	25 COOKED-FRESH-FRIED					0.000200	0.000000	0.000000
55013MA	POULTRY,OTHER-FLESH (+SKIN,W/O BONES)	0.020000	N	0.000108	0.036000			
	21 COOKED-NFS					0.000200	0.000001	0.000333
55015BA	CHICKEN-BYPRODUCTS	0.020000	N	0.000000	0.000000			
	00 NOT SPECIFIED (NO CONSUMPTION)					0.000200	0.000000	0.000000
55015LA	CHICKEN-GIBLETS(LIVER)	0.020000	N	0.000101	0.033667			
	21 COOKED-NFS					0.000200	0.000000	0.000000
	25 COOKED-FRESH-FRIED					0.000200	0.000001	0.000333
	26 COOKED-FRESH-PICKLED,CORNED,OR CURED					0.000200	0.000000	0.000000
55015MA	CHICKEN-FLESH(W/O SKIN,W/O BONES)	0.020000	N	0.001203	0.401000			
	21 COOKED-NFS					0.000200	0.000008	0.002667
	22 COOKED-FRESH-BAKED					0.000200	0.000001	0.000333
	25 COOKED-FRESH-FRIED					0.000200	0.000000	0.000000
	31 COOKED-FRESH OR CANNED					0.000200	0.000002	0.000667
	53 COOKED-CANNED-BOILED					0.000200	0.000001	0.000333
55015MB	CHICKEN-FLESH(+SKIN,W/O BONES)	0.020000	N	0.007586	2.528667			
	21 COOKED-NFS					0.000200	0.000041	0.013667
	25 COOKED-FRESH-FRIED					0.000200	0.000035	0.011667
	CROP GROUP TOTALS FOR POULTRY:			0.010133	3.377667		0.000101	0.033667
50000DB	MILK-NON-FAT SOLIDS	0.020000	N	0.142727	47.575667			
	10 RAW-FRESH OR NFS					0.000200	0.001141	0.380333
	21 COOKED-NFS					0.000200	0.000231	0.077000
	51 COOKED-CANNED					0.000200	0.000051	0.017000
50000FA	MILK-FAT SOLIDS	0.020000	N	0.067896	22.632000			
	10 RAW-FRESH OR NFS					0.000200	0.000533	0.177667
	21 COOKED-NFS					0.000200	0.000142	0.047333
	51 COOKED-CANNED					0.000200	0.000002	0.000667
50000SA	MILK SUGAR (LACTOSE)	0.020000	N	0.000749	0.249667			
	21 COOKED-NFS					0.000200	0.000000	0.000000
	51 COOKED-CANNED					0.000200	0.000007	0.002333
55014AA	EGGS-WHOLE	0.020000	N	0.011290	3.763333			
	10 RAW-FRESH OR NFS					0.000200	0.000001	0.000333
	21 COOKED-NFS					0.000200	0.000062	0.020667
	22 COOKED-FRESH-BAKED					0.000200	0.000012	0.004000
	23 COOKED-FRESH-BOILED					0.000200	0.000005	0.001667
	25 COOKED-FRESH-FRIED					0.000200	0.000033	0.011000

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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			
	10 RAW-FRESH OR NFS					0.000200	0.000000	0.000000
	21 COOKED-NFS					0.000200	0.000000	0.000000
	22 COOKED-FRESH-BAKED					0.000200	0.000001	0.000333
	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			
	10 RAW-FRESH OR NFS					0.000200	0.000000	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:			0.222979	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

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: 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			
	10 RAW-FRESH OR NFS					0.000250	0.000218	0.072667
	21 COOKED-NFS					0.000250	0.000002	0.000667
	31 COOKED-FRESH OR CANNED					0.000250	0.000080	0.026667
	62 COOKED-FRESH OR FROZEN-BAKED					0.000250	0.000007	0.002333
04001DA	APPLES-DRIED	0.500000	P	0.001364	0.454667			
	10 RAW-FRESH OR NFS					0.000250	0.000001	0.000333
	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	0.745502	248.500667			
	15 RAW-FRESH OR CANNED					0.000250	0.000330	0.110000
	31 COOKED-FRESH OR CANNED					0.000250	0.000043	0.014333
	CROP GROUP TOTALS FOR POME FRUITS:			1.360722	453.574000		0.000681	0.227000
01014AA	GRAPES-FRESH	0.500000	P	0.065181	21.727000			
	10 RAW-FRESH OR NFS					0.000100	0.000006	0.002000
	21 COOKED-NFS					0.000100	0.000000	0.000000
	31 COOKED-FRESH OR CANNED					0.000100	0.000006	0.002000
01014DA	GRAPES-RAISINS	5.000000	N	0.360554	120.184667			
	10 RAW-FRESH OR NFS					0.001000	0.000242	0.080667
	21 COOKED-NFS					0.001000	0.000006	0.002000
	22 COOKED-FRESH-BAKED					0.001000	0.000062	0.020667
01014JA	GRAPES-JUICE	0.500000	P	0.225919	75.306333			
	10 RAW-FRESH OR NFS					0.000100	0.000004	0.001333
	15 RAW-FRESH OR CANNED					0.000100	0.000040	0.013333
	21 COOKED-NFS					0.000100	0.000001	0.000333
	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			
	21 COOKED-NFS					0.000400	0.000019	0.006333
	26 COOKED-FRESH-PICKLED,CORNED,OR CURED					0.000400	0.000001	0.000333
53001BB	BEEF(ORGAN MEATS)-OTHER	0.040000	N	0.000544	0.181333			
	21 COOKED-NFS					0.000400	0.000004	0.001333
	51 COOKED-CANNED					0.000400	0.000001	0.000333
53001DA	BEEF-DRIED	0.040000	N	0.000238	0.079333			
	21 COOKED-NFS					0.000400	0.000002	0.000667
53001FA	BEEF(BONELESS)-FAT (BEEF TALLOW)	0.040000	N	0.026770	8.923333			
	10 RAW-FRESH OR NFS					0.000400	0.000001	0.000333
	21 COOKED-NFS					0.000400	0.000121	0.040333

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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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
	22 COOKED-FRESH-BAKED					0.000400	0.000022	0.007333
	23 COOKED-FRESH-BOILED					0.000400	0.000040	0.013333
	24 COOKED-FRESH-BROILED					0.000400	0.000070	0.023333
	25 COOKED-FRESH-FRIED					0.000400	0.000014	0.004667
53001KA	BEEF(ORGAN MEATS)-KIDNEY	0.040000	N	0.000076	0.025333			
	21 COOKED-NFS					0.000400	0.000001	0.000333
53001LA	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
53001MA	BEEF(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.040000	N	0.083907	27.969000			
	10 RAW-FRESH OR NFS					0.000400	0.000000	0.000000
	21 COOKED-NFS					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
	24 COOKED-FRESH-BROILED					0.000400	0.000172	0.057333
53002BA	GOAT-MEAT BYPRODUCTS	0.040000	N	0.000000	0.000000			
	00 NOT SPECIFIED (NO CONSUMPTION)					0.000400	0.000000	0.000000
53002BB	GOAT(ORGAN MEATS)-OTHER	0.040000	N	0.000000	0.000000			
	00 NOT SPECIFIED (NO CONSUMPTION)					0.000400	0.000000	0.000000
53002FA	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
53003AA	HORSE	0.040000	N	0.000000	0.000000			
	00 NOT SPECIFIED (NO CONSUMPTION)					0.000400	0.000000	0.000000
53005BA	SHEEP-MEAT BYPRODUCTS	0.040000	N	0.000000	0.000000			
	21 COOKED-NFS					0.000400	0.000000	0.000000
53005BB	SHEEP(ORGAN MEATS)-OTHER	0.040000	N	0.000000	0.000000			
	21 COOKED-NFS					0.000400	0.000000	0.000000
53005FA	SHEEP(BONELESS)-FAT	0.040000	N	0.000151	0.050333			
	21 COOKED-NFS					0.000400	0.000002	0.000667
53005KA	SHEEP(ORGAN MEATS)-KIDNEY	0.040000	N	0.000000	0.000000			
	21 COOKED-NFS					0.000400	0.000000	0.000000
53005LA	SHEEP(ORGAN MEATS)-LIVER	0.200000	N	0.000000	0.000000			
	00 NOT SPECIFIED (NO CONSUMPTION)					0.002000	0.000000	0.000000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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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
53005MA	SHEEP(BONELESS)-LEAN (W/O REMOVEABLE FAT	0.040000	N	0.000469	0.156333			
	21 COOKED-NFS					0.000400	0.000004	0.001333
	31 COOKED-FRESH OR CANNED					0.000400	0.000001	0.000333
53006BA	PORK-MEAT BYPRODUCTS	0.040000	N	0.002402	0.800667			
	21 COOKED-NFS					0.000400	0.000024	0.008000
53006BB	PORK(ORGAN MEATS)-OTHER	0.040000	N	0.000344	0.114667			
	21 COOKED-NFS					0.000400	0.000003	0.001000
	26 COOKED-FRESH-PICKLED,CORNED,OR CURED					0.000400	0.000000	0.000000
53006FA	PORK(BONELESS)-FAT (INCLUDING LARD)	0.040000	N	0.017030	5.676667			
	10 RAW-FRESH OR NFS					0.000400	0.000001	0.000333
	21 COOKED-NFS					0.000400	0.000077	0.025667
	23 COOKED-FRESH-BOILED					0.000400	0.000032	0.010667
	25 COOKED-FRESH-FRIED					0.000400	0.000021	0.007000
	26 COOKED-FRESH-PICKLED,CORNED,OR CURED					0.000400	0.000040	0.013333
53006KA	PORK(ORGAN MEATS)-KIDNEY	0.040000	N	0.000000	0.000000			
	21 COOKED-NFS					0.000400	0.000000	0.000000
53006LA	PORK(ORGAN MEATS)-LIVER	0.200000	N	0.001595	0.531667			
	21 COOKED-NFS					0.002000	0.000015	0.005000
	25 COOKED-FRESH-FRIED					0.002000	0.000000	0.000000
53006MA	PORK(BONELESS)-LEAN (W/O REMOVEABLE FAT)	0.040000	N	0.027893	9.297667			
	21 COOKED-NFS					0.000400	0.000139	0.046333
	25 COOKED-FRESH-FRIED					0.000400	0.000039	0.013000
	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			
	21 COOKED-NFS					0.000200	0.000000	0.000000
	26 COOKED-FRESH-PICKLED,CORNED,OR CURED					0.000200	0.000000	0.000000
55008LA	TURKEY-GIBLETS (LIVER)	0.020000	N	0.000000	0.000000			
	21 COOKED-NFS					0.000200	0.000000	0.000000
	25 COOKED-FRESH-FRIED					0.000200	0.000000	0.000000
55008MA	TURKEY-FLESH(W/O SKIN, W/O BONES)	0.020000	N	0.000232	0.077333			
	21 COOKED-NFS					0.000200	0.000001	0.000333
	31 COOKED-FRESH OR CANNED					0.000200	0.000001	0.000333
	62 COOKED-FRESH OR FROZEN-BAKED					0.000200	0.000000	0.000000
55008MB	TURKEY-FLESH(+SKIN,W/O BONES)	0.020000	N	0.001612	0.537333			
	21 COOKED-NFS					0.000200	0.000014	0.004667
	25 COOKED-FRESH-FRIED					0.000200	0.000002	0.000667
55008MC	TURKEY-UNSPECIFIED	0.020000	N	0.000005	0.001667			
	21 COOKED-NFS					0.000200	0.000000	0.000000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
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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
55013BA	POULTRY,OTHER-BYPRODUCTS	0.020000	N	0.000000	0.000000			
	00 NOT SPECIFIED (NO CONSUMPTION)					0.000200	0.000000	0.000000
55013LA	POULTRY,OTHER-GIBLETS(LIVER)	0.020000	N	0.000002	0.000667			
	25 COOKED-FRESH-FRIED					0.000200	0.000000	0.000000
55013MA	POULTRY,OTHER-FLESH (+SKIN,W/O BONES)	0.020000	N	0.000178	0.059333			
	21 COOKED-NFS					0.000200	0.000002	0.000667
55015BA	CHICKEN-BYPRODUCTS	0.020000	N	0.000000	0.000000			
	00 NOT SPECIFIED (NO CONSUMPTION)					0.000200	0.000000	0.000000
55015LA	CHICKEN-GIBLETS(LIVER)	0.020000	N	0.000171	0.057000			
	21 COOKED-NFS					0.000200	0.000000	0.000000
	25 COOKED-FRESH-FRIED					0.000200	0.000001	0.000333
	26 COOKED-FRESH-PICKLED,CORNED,OR CURED					0.000200	0.000000	0.000000
55015MA	CHICKEN-FLESH(W/O SKIN,W/O BONES)	0.020000	N	0.002476	0.825333			
	21 COOKED-NFS					0.000200	0.000015	0.005000
	22 COOKED-FRESH-BAKED					0.000200	0.000002	0.000667
	25 COOKED-FRESH-FRIED					0.000200	0.000001	0.000333
	31 COOKED-FRESH OR CANNED					0.000200	0.000003	0.001000
	53 COOKED-CANNED-BOILED					0.000200	0.000003	0.001000
55015MB	CHICKEN-FLESH(+SKIN,W/O BONES)	0.020000	N	0.015938	5.312667			
	21 COOKED-NFS					0.000200	0.000083	0.027667
	25 COOKED-FRESH-FRIED					0.000200	0.000076	0.025333
	CROP GROUP TOTALS FOR POULTRY:			0.020623	6.874333		0.000204	0.068000
50000DB	MILK-NON-FAT SOLIDS	0.020000	N	0.430242	143.414000			
	10 RAW-FRESH OR NFS					0.000200	0.003751	1.250333
	21 COOKED-NFS					0.000200	0.000522	0.174000
	51 COOKED-CANNED					0.000200	0.000016	0.005333
50000FA	MILK-FAT SOLIDS	0.020000	N	0.190507	63.502333			
	10 RAW-FRESH OR NFS					0.000200	0.001581	0.527000
	21 COOKED-NFS					0.000200	0.000314	0.104667
	51 COOKED-CANNED					0.000200	0.000004	0.001333
50000SA	MILK SUGAR (LACTOSE)	0.020000	N	0.000112	0.037333			
	21 COOKED-NFS					0.000200	0.000000	0.000000
	51 COOKED-CANNED					0.000200	0.000001	0.000333
55014AA	EGGS-WHOLE	0.020000	N	0.025474	8.491333			
	10 RAW-FRESH OR NFS					0.000200	0.000002	0.000667
	21 COOKED-NFS					0.000200	0.000156	0.052000
	22 COOKED-FRESH-BAKED					0.000200	0.000025	0.008333
	23 COOKED-FRESH-BOILED					0.000200	0.000006	0.002000
	25 COOKED-FRESH-FRIED					0.000200	0.000067	0.022333

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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
55014AB	EGGS-WHITE ONLY	0.020000	N	0.000320	0.106667			
	10 RAW-FRESH OR NFS					0.000200	0.000000	0.000000
	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	0.020000	N	0.000205	0.068333			
	10 RAW-FRESH OR NFS					0.000200	0.000000	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