

Code	Commodity	STMR or STMR-P mg/kg	Diets: g/person/day. Intake = daily intake: µg/person									
			Mid-East		Far-East		African		Latin American		European	
			diet	intake	diet	intake	diet	intake	diet	intake	diet	intake
VB 0400	Broccoli	0.11	0.5	0.1	1.0	0.1	0.0	0.0	1.1	0.1	2.7	0.3
	Cabbages (head & leafy brassicas, kohlrabi) ^{1/}	0.34	5.0	1.7	9.7	3.3	0.0	0.0	10.5	3.6	26.8	9.1
FC 0001	Citrus fruits	0.079	47.1	3.7	6.3	0.5	5.1	0.4	54.6	4.3	44.6	3.5
FB 0265	Cranberry	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
MO 0105	Edible offal (mammalian)	0.02	4.2	0.1	1.4	0.0	2.8	0.1	6.1	0.1	12.4	0.2
PE 0112	Eggs	0	14.6	0.0	13.1	0.0	3.7	0.0	11.9	0.0	37.6	0.0
FB 0269	Grapes (fresh, wine, dried)	0.745	16.1	12.0	1.0	0.7	0.0	0.0	1.6	1.2	16.1	12.0
DF 0269	Grapes, dried (= currants, raisins and sultanas)	0.551	0.3	0.2	0.0	0.0	0.0	0.0	0.3	0.2	2.3	1.3
FI 0341	Kiwi fruit	0.14	0.0	0.0	0.0	0.0	1.9	0.3	0.1	0.0	1.5	0.2
VL 0053	Leafy vegetables	2.45	7.8	19.1	9.7	23.8	0.7	1.7	16.5	40.4	51.7	126.7
MM 0095	Meat from mammals other than marine mammals: 20% as fat	0.015	7.4	0.1	6.6	0.1	4.8	0.1	9.4	0.1	31.1	0.5
MM 0095	Meat from mammals other than marine mammals: 80% as muscle	0.006	29.6	0.2	26.2	0.2	19.0	0.1	37.6	0.2	124.4	0.7
ML 0106	Milks	0.003	116.9	0.4	32.1	0.1	41.8	0.1	160.1	0.5	289.3	0.9
HH 0738	Mints	8.35	-	-	-	-	-	-	-	-	-	-
FS 0245	Nectarines	0.11	1.3	0.1	0.3	0.0	0.0	0.0	0.4	0.0	6.3	0.7
JF 0004	Orange juice	0.0077	7.3	0.1	0.0	0.0	0.0	0.0	0.3	0.0	4.5	0.0
FS 0247	Peaches	0.11	1.3	0.1	0.3	0.0	0.0	0.0	0.4	0.0	6.3	0.7
TN 0672	Pecans	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
VO 0051	Peppers	0.064	3.4	0.2	2.1	0.1	5.4	0.3	2.4	0.2	10.4	0.7
FP 0009	Pome fruits	0.17	10.8	1.8	7.5	1.3	0.3	0.1	6.5	1.1	51.3	8.7
PM 0110	Poultry meat: 10% as fat	0.02	3.1	0.1	1.3	0.0	0.6	0.0	2.5	0.1	5.3	0.1
PM 0110	Poultry meat: 90% as muscle	0	27.9	0.0	11.9	0.0	5.0	0.0	22.8	0.0	47.7	0.0
SO 0495	Rape seed	0.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OC 0495	Rape seed oil, crude	2.2	4.5	9.9	2.7	5.9	0.0	0.0	0.3	0.7	7.3	16.1
FB 0272	Raspberries, red, black	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3
CM 0649	Rice, husked	0.03	0.0	0.0	1.8	0.1	34.7	1.0	21.0	0.6	2.5	0.1
GS 0659	Sugar cane	0.12	18.5	2.2	7.3	0.9	15.9	1.9	3.5	0.4	0.0	0.0
	Sugar, refined	0.003	73.0	0.2	43.0	0.1	25.5	0.1	97.3	0.3	96.8	0.3
VO 0448	Tomatoes (fresh)	0.13	44.1	5.7	5.7	0.7	14.6	1.9	25.5	3.3	34.9	4.5
JF 0448	Tomato juice	0.023	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
	Tomato paste	0.095	5.8	0.6	0.2	0.0	0.3	0.0	0.0	0.0	4.0	0.4
TN 0678	Walnuts	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
	Wine only	0.216	0.5	0.1	0.0	0.0	0.8	0.2	19.8	4.3	97.8	21.1
Total intake (µg/person) =			58.7		38.0		8.3		62.5		209.7	
Bodyweight per region (kg bw) =			60		55		60		60		60	
ADI (µg/person) =			1200		1100		1200		1200		1200	
%ADI =			4.9		3.5		0.7		5.2		17.5	
Rounded %ADI =			5		3		1		5		20	

^{1/} This is a worst-case calculation. The recommendation is for VB 0041, Cabbage head, only.

Short-term intake

At the 2001 Meeting, International Estimated Short Term Intake (IESTI) calculations exceeded the acute RfD for leafy vegetables, cabbage, pome fruits and grapes. At the present Meeting, on the basis of a study better suited to assess acute toxic effects, the acute RfD of 0.05 mg/kg bw was revised to 0.9 mg/kg bw (JMPR, 2003). The IESTIs for tebufenozide were therefore recalculated for the food commodities for which maximum residue levels were estimated and for which consumption data were available. The results are shown in Tables 3 and 4.

The IESTI represented 0-10% of the acute RfD for the general population and 0-40% of the acute RfD for children. The Meeting concluded that the short-term intake of residues of tebufenozide resulting from its uses that have been considered by the JMPR is unlikely to present a public health concern.

Table 3. International Estimated Short-term Intakes (IESTIs) of tebufenozide by the general population (acute RfD = 0.900 mg/kg bw/day or 900 µg/kg bw).

Codex Code	Commodity	STMR or STMR-P mg/kg	HR or HR-P, mg/kg	Large portion diet			Unit weight			Variability factor	Case	IESTI µg/kg bw/day	% acute RfD rounded
				Country	Body wt (kg)	Large portion, g/person	Unit wt (g)	Country	Unit wt, edible portion (g)				
TN 0660	Almonds	-	0.045	JPN	52.6	74	-	-	-	-	1	0.06	0
FP 0226	Apples	-	1.1	USA	65.0	1348	138	USA	127	3	2a	27.11	3
JF 0226	Apple juice	0.02	-	-	-	-	-	-	-	-	3	-	-
FI 0326	Avocados	-	0.5	FRA	62.3	260	300	FRA	180	3	2a	4.97	1
FB 0020	Blueberries	-	1.7	AUS	67.0	158	-	-	-	-	1	4.01	0
VB 0400	Broccoli	-	0.34	USA	65.0	376	150	JPN	150	3	2a	3.54	0
VB 0041	Cabbages, head	-	4.6	SAF	55.7	362	908	USA	717	3	2b	89.70	10
PE 0840 1/	Chicken eggs	-	0.02	FRA	62.3	219	-	-	-	-	1	0.07	0
FB 0265	Cranberries	-	0.28	USA	65.0	229	-	-	-	-	1	0.99	0
MO 0105	Edible offal (mammalian)	-	0.02	FRA	62.3	277	-	-	-	-	1	0.09	0
FC 0203	Grapefruit	-	0.18	JPN	52.6	947	340	UNK	160	3	2a	4.33	0
FB 0269	Grapes (fresh, dried, excluding wine)	-	1.5	AUS	67.0	513	125	FRA	118	3	2a	16.75	2
DF 0269	Grapes, dried (= currants, raisins and sultanas)	-	1.1	FRA	62.3	135	-	-	-	-	1	2.39	0
VL 0480	Kale	-	8.1	NLD	63.0	337	-	-	-	-	1	43.34	5
FI 0341	Kiwi fruit	-	0.22	NLD	63.0	355	75	FRA	65	3	2a	1.69	0
FC 0204	Lemons	-	0.18	FRA	62.3	115	100	FRA	64	3	2a	0.70	0
VL 0482	Lettuce, head	-	8.1	USA	65.0	213	539	USA	512	3	2b	79.46	9
VL 0483	Lettuce, leaf	-	8.1	NLD	63.0	152	10	USA	10	1	1	19.52	2
FC 0206	Mandarins	-	0.18	JPN	52.6	409	100	FRA	72	3	2a	1.89	0
MM 0095	Meat from mammals other than marine mammals: 20% as fat	-	0.029	AUS	67.0	104	-	-	-	-	1	0.05	0
MM 0095	Meat from mammals other than marine mammals: 80% as muscle	-	0.006	AUS	67.0	417	-	-	-	-	1	0.04	0
ML 0106	Milks	0.003	-	USA	65.0	2466	-	-	-	-	3	0.11	0
HH 0738	Mint	-	8.6	AUS	67.0	8	-	-	-	-	1	1.00	0
FS 0245	Nectarines	-	0.23	USA	65.0	590	110	FRA	99	3	2a	2.79	0
FC 0004	Oranges, sweet, sour (incl. orange-like hybrids)	-	0.18	USA	65.0	564	190	FRA	137	3	2a	2.32	0
FS 0247	Peaches	-	0.23	SAF	55.7	685	110	FRA	99	3	2a	3.65	0
FP 0230	Pears	-	1.1	USA	65.0	693	166	USA	151	3	2a	16.84	2
TN 0672	Pecans	-	0.01	AUS	67.0	23	-	-	-	-	1	0.00	0
VO 0444	Peppers, chili	-	0.64	USA	65.0	90	45	USA	43	3	2a	1.74	0
VO 0445	Peppers, sweet (incl. pim(i)ento)	-	0.64	FRA	62.3	207	172	UNK	160	3	2a	5.42	1
PM 0110	Poultry meat: 10% as fat	-	0.0006	AUS	67.0	43	-	-	-	-	1	0.00	0
PM 0110	Poultry meat: 90% as muscle	-	1E-09	AUS	67.0	388	-	-	-	-	1	0.00	0

Codex Code	Commodity	STMR or STMR-P mg/kg	HR or HR-P, mg/kg	Large portion diet			Unit weight			Variability factor	Case	IESTI µg/kg bw/day	% acute RfD rounded
				Country	Body wt (kg)	Large portion, g/person	Unit wt (g)	Country	Unit wt, edible portion (g)				
PO 0111	Poultry, edible offal of	-	0.02	USA	65.0	248	-	-	-	-	1	0.08	0
OR 0495	Rape seed oil, edible	2.2	-	AUS	67.0	65	-	-	-	-	3	2.13	0
FB 0272	Raspberries, red, black	-	0.86	FRA	62.3	324	-	-	-	-	1	4.47	0
CM 0649	Rice, husked	-	0.07	JPN	52.6	319	-	-	-	-	1	0.42	0
VL 0502	Spinach (bunch)	-	8.1	NLD	63.0	820	111	UNK	90	3	2a	128.50	10
GS 0659	Sugar cane	-	0.62	SAF	55.7	89	-	-	-	-	1	0.99	0
	Sugar, refined	0.003	-	-	-	-	-	-	-	-	3	-	-
VO 0448	Tomatoes (fresh, juice, paste, peeled)	-	0.53	USA	65.0	391	123	USA	123	3	2a	5.19	1
JF 0448	Tomato juice	0.023	-	-	-	-	-	-	-	-	3	-	-
	Tomato paste	0.007	-	-	-	-	-	-	-	-	3	-	-
TN 0678	Walnuts	-	0.02	FRA	62.3	136	-	-	-	-	1	0.04	0
	Wine only	0.081	-	AUS	67.0	1131	-	-	-	-	3	1.37	0

^{1/} Through lack of information on large portion size of PE 0112 Eggs, the calculation was made for PE 0840 Chicken eggs.

Table 4. International Estimated Short-term Intakes (IESTIs) of tebufenozide by children up to 6 years (acute RfD = 0.900 mg/kg bw/day or 900 µg/kg bw).

Codex Code	Commodity	STMR or STMR-P mg/kg	HR or HR-P mg/kg	Large portion diet			Unit weight			Variability factor	Case	IESTI µg/kg bw/day	% acute RfD rounded
				Country	Body wt (kg)	Large portion, corrected g/person	Unit wt, g	Country	Unit wt, edible portion, g				
TN 0660	Almonds	-	0.045	FRA	17.8	31	-	-	-	-	1	0.08	0%
FP 0226	Apples	-	1.1	USA	15.0	679	138	USA	127	3	2a	68.40	8%
JF 0226	Apple juice	0.02	-	-	-	-	-	-	-	-	3	-	-
FI 0326	Avocados	-	0.5	USA	15.0	131	300	FRA	180	3	2b	13.05	1%
FB 0020	Blueberries	-	1.7	FRA	17.8	138	-	-	-	-	1	13.21	1%
VB 0400	Broccoli	-	0.34	USA	15.0	164	150	JPN	150	3	2a	10.52	1%
VB 0041	Cabbages, head	-	4.6	SAF	14.2	220	908	USA	717	3	2b	213.90	20%
PE 0840 ^{1/}	Chicken eggs	-	0.02	FRA	17.8	134	-	-	-	-	1	0.15	0%
FB 0265	Cranberry	-	0.28	USA	15.0	102	-	-	-	-	1	1.90	0%
MO 0105	Edible offal (mammalian)	-	0.02	FRA	17.8	203	-	-	-	-	1	0.23	0%
FC 0203	Grapefruit	-	0.18	FRA	17.8	381	340	UNK	160	3	2a	7.09	1%
FB 0269	Grapes (fresh, dried, excluding wine)	-	1.5	AUS	19.0	342	125	FRA	118	3	2a	45.55	5%
DF 0269	Grapes, dried (= currants, raisins and sultanas)	-	1.1	USA	15.0	59	-	-	-	-	1	4.35	0%
VL 0480	Kale	-	8.1	NLD	17.0	149	-	-	-	-	1	70.79	8%
FI 0341	Kiwi fruit	-	0.22	JPN	15.9	162	75	FRA	65	3	2a	4.03	0%
FC 0204	Lemons	-	0.18	JPN	15.9	88	100	FRA	64	3	2a	2.45	0%
VL 0482	Lettuce, head	-	8.1	NLD	17.0	84	539	USA	512	3	2b	119.56	10%
VL 0483	Lettuce, leaf	-	8.1	NLD	17.0	102	10	USA	10	1	1	48.60	5%
FC 0206	Mandarins	-	0.18	JPN	15.9	353	100	FRA	72	3	2a	5.63	1%

Codex Code	Commodity	STMR or STMR-P mg/kg	HR or HR-P mg/kg	Large portion diet			Unit weight			Variability factor	Case	IESTI µg/kg bw/day	% acute RfD rounded
				Country	Body wt (kg)	Large portion, corrected g/person	Unit wt, g	Country	Unit wt, edible portion, g				
MM 0095	Meat from mammals other than marine mammals: 20% as fat	-	0.029	AUS	19.0	52	-	-	-	-	1	0.08	0%
MM 0095	Meat from mammals other than marine mammals: 80% as muscle	-	0.006	AUS	19.0	208	-	-	-	-	1	0.07	0%
ML 0106	Milks	0.003	-	USA	15.0	1286	-	-	-	-	3	0.26	0%
HH 0738	Mint	-	8.6	AUS	19.0	34	-	-	-	-	1	15.28	2%
FS 0245	Nectarines	-	0.23	AUS	19.0	302	110	FRA	99	3	2a	6.05	1%
FC 0004	Oranges, sweet, sour (incl. orange-like hybrids)	-	0.18	UNK	14.5	495	190	FRA	137	3	2a	9.54	1%
FS 0247	Peaches	-	0.23	AUS	19.0	315	110	FRA	99	3	2a	6.22	1%
FP 0230	Pears	-	1.1	UNK	14.5	279	166	USA	151	3	2a	44.08	5%
TN 0672	Pecans	-	0.01	AUS	19.0	22	-	-	-	-	1	0.01	0%
VO 0444	Peppers, chili	-	0.64	AUS	19.0	31	45	USA	43	3	2b	3.08	0%
VO 0445	Peppers, sweet (incl. pim(i)ento)	-	0.64	AUS	19.0	60	172	UNK	160	3	2b	6.07	1%
PM 0110	Poultry meat: 10% as fat	-	0.0006	AUS	19.0	22	-	-	-	-	1	0.00	0%
PM 0110	Poultry meat: 90% as muscle	-	1E-09	AUS	19.0	201	-	-	-	-	1	0.00	0%
PO 0111	Poultry, edible offal of	-	0.02	USA	15.0	37	-	-	-	-	1	0.05	0%
OR 0495	Rape seed oil, edible	2.2	-	AUS	19.0	18	-	-	-	-	3	2.13	0%
FB 0272	Raspberries, red, black	-	0.86	FRA	17.8	76	-	-	-	-	1	3.68	0%
CM 0649	Rice, husked	-	0.07	FRA	17.8	223	-	-	-	-	1	0.88	0%
VL 0502	Spinach (bunch)	-	8.1	SAF	14.2	420	111	UNK	90	3	2a	342.33	40%
GS 0659	Sugar cane	-	0.62	SAF	14.2	60	-	-	-	-	1	2.60	0%
	Sugar, refined	0.003	-	-	-	-	-	-	-	-	3	-	-
VO 0448	Tomatoes (fresh, juice, paste, peeled)	-	0.53	USA	15.0	159	123	USA	123	3	2a	14.31	2%
FJ 0448	Tomato juice	0.023	-	-	-	-	-	-	-	-	3	-	-
	Tomato paste	0.007	-	-	-	-	-	-	-	-	3	-	-
TN 0678	Walnuts	-	0.02	USA	15.0	6	-	-	-	-	1	0.01	0%
	Wine only	0.081	-	AUS	19.0	4	-	-	-	-	3	0.02	0%

^{1/} Through lack of information on large portion size of PE 0112 Eggs, the calculation was made for PE 0840 Chicken eggs.

REFERENCES

JMPR, 2002. Maximum residue levels for animal commodities – group MRLs. Pesticide residues in food – 2002. Report of the Joint Meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Core Assessment Group on Pesticide Residues, Rome, 16-25 September, 2002. FAO plant production and protection paper 172. WHO & FAO, Rome, 2002. Section 2.11, pp. 20-23.

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