CODEX ALIMENTARIUS COMMISSION

E

Food and Agriculture Organization of the United Nations

World Health Organization

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May 2022

TO: Codex Contact Points
Contact Points of international organizations having observer status with Codex

FROM: Secretariat, Codex Alimentarius Commission,
Joint FAO/WHO Food Standards Programme

SUBJECT: **Request for comments at Step 3 on the recommendations of the Joint FAO/WHO Meetings on pesticide Residues (JMPR) (2021)[1]**

DEADLINE: **15 June 2022**

Background
JMPR Extra Meeting

1. The extra Joint FAO/WHO Meeting on Pesticide Residues (JMPR) was held virtually over two sessions from 17 to 21 May and from 7 to 11 June 2021.

2. The Meeting evaluated 29 pesticides for residues with regard to additional uses. The Meeting estimated maximum residue levels and recommended them for use by CCPR and estimated supervised trials median residue (STMR) and highest residue (HR) levels as a basis for estimating dietary exposures. The Meeting also estimated the dietary exposures (both acute and long-term) of the pesticides reviewed and, on this basis, performed a dietary risk assessment in relation to the relevant acceptable daily intake (ADI) and where necessary the acute reference dose (ARfD).

JMPR Regular Meeting

3. The regular JMPR was held virtually, from 6 to 17 September and the 4th and 7th of October 2021.

4. The Meeting evaluated 28 pesticides and in addition, a number of pesticides used on spices were considered. The Meeting also estimated maximum residue levels, which it recommended for use as maximum residue limits (MRLs) by CCPR. It also estimated STMR and HR levels as a basis for estimation of the dietary exposure to residues of the pesticides reviewed.

JMPR Extraordinary and Regular Meetings

5. Pesticides for which the estimated dietary exposure might, on the basis of the available information, exceed their ADIs are marked with footnotes, which are also applied to specific commodities when the available information indicated that the ARfD of a pesticide might be exceeded when the commodity was consumed. The allocations and estimates are shown in the tables in Annex 1 and Annex 2.

6. The tables include the Codex reference numbers of the compounds and the Codex classification numbers (CCNs) of the commodities, to facilitate reference to the Codex MRLs and other Codex documents. Both compounds and commodities are listed in alphabetical order.

[1] The recommendations of the JMPR for pesticide maximum residue limits correspond to Step 3 of the Codex Procedure.

7. Apart from the abbreviations indicated above, the following qualifications are used in the tables.

* (following name of pesticide)	New compound
** (following name of pesticide)	Compound reviewed within CCPR periodic review program
(*) (following recommended maximum residue level)	At or about the limit of quantification
Ar	The median or highest residue is reported at the moisture content of the feed commodity "as received"
Dw	The value is reported in the dry weight of the feed commodity
HR-P	Highest residue in a processed commodity, in mg/kg, calculated by multiplying the HR in the raw commodity by the processing factor
Po	The recommendation accommodates post-harvest treatment of the commodity.
PoP (following recommendation for processed foods (classes D and E in the Codex classification)	The recommendation accommodates post-harvest treatment of the primary food commodity.
STMR-P	An STMR for a processed commodity calculated by applying the concentration or reduction factor for the process to the STMR calculated for the raw agricultural commodity.
W (in place of a recommended MRL)	The previous recommendation is withdrawn, or withdrawal of the recommended MRL or existing Codex or draft MRL is recommended.

8. The reports of the 2021 extra and regular meetings (including the Annexes) are available as follows:

- Extra JMPR: https://www.fao.org/3/cb6975en/cb6975en.pdf
- Regular JMPR: https://www.fao.org/3/cb8313en/cb8313en.pdf

9. Should anybody have problems in downloading the above documents, please contact the FAO or WHO JMPR Secretariats at the following addresses in order to get a copy as an email attachment:

FAO JMPR Secretariat
Plant Production and Protection Division
FAO of the United Nations
Rome, Italy
E-mail: YongZhen.Yang@fao.org

WHO JMPR Secretariat
GEMS/Food Program
Department of Food Safety and Zoonoses (FOS)
World Health Organization
Geneva, Switzerland
E-mail: madsens@who.int

REQUEST FOR COMMENTS

10. Codex members and observer international organizations having granted observer status in Codex wishing to submit comments on the proposed MRLs that correspond to Step 3 of the Codex Procedure as proposed by the 2021 JMPR Extraordinary and Regular Meetings and also on other recommendations which are relevant to the work of CCPR53 (see tables in Annex 1 and Annex 2), as well as concern forms, should do so in writing, in conformity with the Procedures for the Elaboration of Codex Standards and Related Texts (*Codex Alimentarius Procedural Manual*) by the deadline indicated on cover page.

11. Concern forms should be sent separately to the Codex Secretariat (codex@fao.org) with a copy to the CCPR Secretariat (ccpr@agri.gov.cn) in word file to facilitate their compilation.

12. Circular letters are available on the Codex website[2] (Circular Letters, 2022) and also on the CCPR53 website[3].

13. Codex members and observers are invited to provide comments on the MRLs as shown in the Annexes 1 and 2 to this Circular Letter, which is uploaded to the Codex Online Commenting System (OCS): https://ocs.codexalimentarius.org/, as per the guidance below, while taking into account the data and information provided in the reports of the extra and regular JMPR (2021).

[2] http://www.fao.org/fao-who-codexalimentarius/circular-letters/en
[3] https://www.fao.org/fao-who-codexalimentarius/committees/committee/related-circular-letters/en/?committee=CCPR

GUIDANCE ON THE PROVISION OF COMMENTS

14. Comments should be submitted through the Codex Contact Points of Codex members and observers using the OCS.

15. Contact Points of Codex members and observers may login to the OCS and access the document open for comments by selecting “Enter” in the “My reviews” page, available after login to the system.

16. Other OCS resources, including Frequently Asked Questions (FAQ), as well as the user manual and short guide, can be found at the following link: http://www.fao.org/fao-who-codexalimentarius/resources/circular-letters/en/.

17. For questions on the OCS, please contact Codex-OCS@fao.org.

EXTRA JMPR MEETING
Annex 1:
Acceptable daily intakes, acute reference doses, recommended maximum residue levels, supervised trials median residue values and other values recorded by the 2021 Extra JMPR Meeting
Original language only

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Acetamiprid (246)						
Acetamiprid (246) ADI: 0–0.07 mg/kg bw ARfD: 0.1 mg/kg bw	TN 0085	Tree nuts, Group of	W	0.06	0.01	0.05
	TN 0085	Tree nuts, Group of, except Pistachio nut	0.06		0.01	0.05
	TN 0675	Pistachio nut	1		0.33	0.51
• Definition of the residue for compliance with the MRL and for dietary risk assessment for plant commodities: *Acetamiprid*. • Definition of the residue for compliance with the MRL and for dietary risk assessment for animal commodities: *Sum of acetamiprid and N-desmethyl-acetamiprid, expressed as acetamiprid.* • The residue is not fat-soluble.						
Bixafen (262)						
Bixafen (262) ADI: 0–0.02 mg/kg bw ARfD: 0.2 mg/kg bw	GC 0640	Barley	1.5	0.4	0.33	
	SO 0691	Cottonseed	0.3		0.03	
	AS 0645	Maize fodder (dry)	5 (dw)		Median: 1.47 (as)	Highest: 2.24 (as)
	GC 0645	Maize	0.01(*)		0.02	
	AS 3490	Maize bran, unprocessed	0.03		0.062	
	OR 0645	Maize oil, Edible	0.02		0.036	
	SO 0697	Peanut	0.01		0.02	
	OR 0697	Peanut oil, Edible	0.03		0.044	
	VD 0070	Pulses, Group of (except Soya bean (dry))	0.04[a]		0.02 [a]	
	VR 0075	Root and tuber vegetables, Group of	0.06[a]		0.028 [a]	0.068 [a]
	GC 0651	Sorghum Grain	2		0.196	
	VD 0541	Soya bean (dry)	0.08		0.034	
	AB 0541	Soya bean hulls	0.3		0.0952	
	OR 0541	Soya bean oil, Refined	0.15		0.0476	
	SO 0702	Sunflower seed	3		0.045	
	GC 0447	Sweet corn (corn on the cob) (kernels plus cob with husk removed)	0.01(*)		0.02	0.02
	CF 0654	Wheat bran, Processed	0.8	0.15	0.2375	
	GC 0654	Wheat	0.3	0.05	0.095	
		Beer			0.036	
		Brewer´s malt			0.317	
		Pearl barley			0.083	
		Soya bean, flour			0.00374	
		Soya bean milk			0.00221	
	CF 1211	Wheat flour			0.03135	
	CF 1210	Wheat germ			0.07885	
[a] based on rotational crops						

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
• Definition of the residue for compliance with the MRL for plant commodities: *Bixafen.* • Definition of the residue for compliance with the MRL for animal commodities and dietary risk assessment for plant and animal commodities: *Sum of bixafen and N-(3',4'-dichloro-5-fluorobiphenyl-2-yl)-3-(difluoromethyl)-1H-pyrazole-4-carboxamide (bixafen-desmethyl), expressed as bixafen*. • The residue is fat-soluble.						
Clofentezine (156)						
Clofentezine (156) ADI: 0–0.02 mg/kg bw ARfD: Unnecessary	DH 1100	Hops, Dry	7		2.2	
• Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: *Clofentezine.* • Definition of the residue for compliance with the MRL and dietary risk assessment for animal commodities: *Sum of clofentezine and all metabolites containing the 2-chlorobenzoyl moiety, expressed as clofentezine.* • The residue is fat-soluble.						
Clothianidin (238)						
Clothianidin (238) ADI: 0–0.1 mg/kg bw ARfD: 0.6 mg/kg bw	CF 0640	Barley bran, Processed	0.15 c,T		0.028 c,T	
		Barley hay	1 (dw)		Median:0.09 (as)	Highest: 0.72 (as)
	AS 0640	Barley straw and fodder, Dry	1 (dw) c,T	0.2	Median: 0.09 (as) c,T	Highest: 0.72 (as) c,T
	GC 0640	Barley	0.07 c,T	0.04	0.015 c,T	
	PE 0112	Eggs	0.01(*)	0.01(*)	0.0062	0.0062
	MO 0099	Liver of cattle, goats, pigs & sheep	0.4	0.2	0.257	0.39
	ML 0106	Milks	0.05	0.02	0.041	
	AS 0647	Oat straw and fodder, Dry	1 (dw) c,T		Median: 0.09 (as) c,T	Highest: 0.72 (as) c,T
	GC 0647	Oats	0.07 c,T		0.015 c,T	
		Oat hay	1 (dw)		Median: 0.09 (as)	Highest: 0.72 (as)
	PO 0111	Poultry, edible offal of	0.4	0.1	0.37	0.37
	PF 0111	Poultry fats	0.01(*)	0.01(*)	0.0033	0.0033
	PM 0110	Poultry meat	0.01(*)	0.01(*)	0.0014	0.0014
	CM 1206	Rice bran, Unprocessed	1 C,t		0.28 C,t	
	CM 1207	Rice hulls	4 C,t		1.1 C,t	
	AS 0649	Rice straw and fodder, Dry	0.2 (dw) C,t		Median: 0.03 (as) C,t	Highest: 0.13 (as) C,t
	GC 0649	Rice	0.9 C,t		0.3 C,t	
	CM 0649	Rice, husked	0.5 C,t	0.5	0.145	
	CM 1205	Rice, Polished	0.5 C,t		0.12 C,t	
		Rye hay	1 (dw)		Median: 0.09 (as)	Highest: 0.72 (as)
	AS 0651	Sorghum straw and fodder, Dry	0.8 (dw) c,T	0.01	Median: 0.0885 (as) c,T	Highest: 0.46 (as) c,T
	GC 0651	Sorghum Grain	0.15 c,T	0.01(*)	0.018 c,T	
	GS 0658	Sorgo or Sorghum, Sweet	0.4 T		0.0645 T	0.2 T
	GC 2090	Sweet Corns, Subgroup of	0.01(*) C,t		0.01 C,t	0.01 C,t

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	GC 0447	Sweet corn (Corn-on-the-cob) (kernels plus cob with husk removed)	W	0.01(*)		
	AS 0447	Sweet corn fodder	0.05 (dw) C,t		Median: 0.01 (as) c,T	Highest: 0.021 (as) c,T
	GC 0653	Triticale	0.15 c,T		0.01 c,T	
		Triticale hay	1 (dw)		Median: 0.09 (as)	Highest: 0.72 (as)
	AS 0653	Triticale straw and fodder, Dry	1 (dw) c,T		Median: 0.09 (as) c,T	Highest: 0.72 (as) c,T
	CF 0654	Wheat bran, Processed	6 c,T		0.0185 c,T	
	CF 1210	Wheat germ	6 c,T	0.02(*)	0.018 c,T	
	AS 0654	Wheat straw and fodder, Dry	1 (dw) c,T	0.2	Median: 0.09 (as) c,T	Highest: 0.72 (as) c,T
	GC 0654	Wheat	0.15 c,T	0.02	0.01 c,T	
		Wheat hay	1 (dw)		Median: 0.09 (as)	Highest: 0.72 (as)
		Wheat and triticale flour			0.00645	
		Barley flour			0.0097	
		Sorghum (grain) flour			0.0114	
		Sorghum (sweet) syrup			0.059	
T = based on thiamethoxam use only; c,T or C,t = combined clothianidin and thiamethoxam use • Definition of the residue for compliance with the MRL and for dietary risk assessment for plant and animal commodities: *Clothianidin*. • The residue is not fat-soluble.						
Cyprodinil (207)						
Cyprodinil (207) ADI: 0–0.03 mg/kg bw ARfD: Unnecessary	VR 0604	Ginseng	0.3		0.045	
	DV 0604	Ginseng, dried including red ginseng	3		0.114	
	VP 2061	Peas with pods, Subgroup of	2		0.60	
	VD 0071	Beans (dry)	W	0.2		
	VD 2065	Dry beans, Subgroup of (except soya beans)	0.2		0.03	
	VD 2066	Dry peas, Subgroup of	0.2		0.054	
• Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: *Cyprodinil*. • The residue is fat-soluble.						
Difenoconazole (224)						
Difenoconazole (224) ADI: 0–0.01 mg/kg bw ARfD: 0.3 mg/kg bw	FT 0336	Guava	0.15		0.0335	0.095
	FB 0265	Cranberry	0.6		0.2	0.26
	SO 0691	Cottonseed	0.4		0.021	
	DT 1114	Tea, green, black (black, fermented and dried)	20		4.85	
	OR 0691	Cotton seed oil, edible			0.0014	
		Tea infusion			0.0072	

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
• Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: *Difenoconazole*. • Definition of the residue for compliance with the MRL and dietary risk assessment for animal commodities: *Sum of difenoconazole and 1-[2-chloro-4-(4-chloro-phenoxy)-phenyl]-2-(1,2,4-triazol)-1-yl-ethanol), expressed as difenoconazole.* • The residue is fat-soluble.						
Ethion (034)						
Ethion (034) ADI: 0.002 mg/kg bw ARfD: 0.02 mg/kg bw						
• Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: *Ethion*. • The residue is fat-soluble.						
Ethiprole (304)						
Ethiprole (304) ADI: 0–0.005 mg/kg bw ARfD: 0.005 mg/kg bw	VD 0541	Soya bean (dry)	0.05		0.0065	
	AB 0541	Soya bean hulls	0.4		0.045	
	OR 0541	Soya bean oil, refined			0.002	
		Soya bean flour			0.002	
		Soya milk			0.0007	
• Definition of the residue for compliance with the MRL for plant commodities: *Ethiprole.* • Definition of the residue for dietary risk assessment for plant commodities: *Sum of ethiprole, 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(ethylsulfinyl)-1H-pyrazole-3-carboxamide (ethiprole-amide) and 5-amino-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-ethylsulfonylpyrazole-3-carbonitrile (ethiprole-sulfone), expressed as parent equivalents*. • Definition of the residue for compliance with the MRL and dietary risk assessment for animal commodities: *Sum of ethiprole and 5-amino-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-ethylsulfonylpyrazole-3-carbonitrile (ethiprole-sulfone), expressed as parent equivalents*. • The residue is fat-soluble.						
Fenbuconazole (197)						
Fenbuconazole (197) ADI: 0–0.03 mg/kg bw ARfD: 0.2 mg/kg bw	DT 1114	Tea, green, black (black, fermented and dried)	30		4.2	
		Tea infusion			0.0018	
• Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: *Fenbuconazole*. • The residue is not fat-soluble.						
Fenhexamid (215)						
Fenhexamid (215) ADI: 0–0.2 mg/kg bw ARfD: Unnecessary	VS 0621	Asparagus	0.02		0.02	
	VA 2031	Bulb onions, Subgroup of	3		0.055	
	FP 0230	Pear	6Po		2.05	
• Definition of the residue for compliance with the MRL and dietary risk assessment in plant and animal commodities: *Fenhexamid*. • The residue is fat-soluble.						
Fenpicoxamid (305)						
Fenpicoxamid (305) ADI: 0–0.05 mg/kg bw ARfD: Unnecessary	MO 0105	Edible offal (mammalian)	0.02		0.013	
	MF 0100	Mammalian fats (except milk fats)	0.015		0.013	
	MM 0095	Meat (from mammals other than marine mammals)	0.015(*)		0	
	ML 0106	Milks	0.015(*)		0	

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	GC 0650	Rye	0.15		0.0215	
	GC 0653	Triticale	0.15		0.0215	
	AS 0654	Wheat straw and fodder, dry	30 (dw)		Median: 4.7 (as)	Highest: 12 (as)
	GC 0654	Wheat	0.15		0.0215	
	GC 0653	Triticale flour (white and wholemeal)			0.0088[a]	
	CF 1210	Wheat germ			0.0036	
	CP 1212	Wheat wholemeal bread			0.0043	
	CP 1211	Wheat white bread			0.0032	
	CF 1211	Wheat white flour			0.0062	
	CF 1250	Rye flour (white and wholemeal)			0.0088[a]	
	-	Wheat, bulgur			0.0088[a]	
	-	Wheat starch			0.0032	
	-	Wheat gluten			0.0058	

[a] PF for wheat wholemeal flour was used.

- Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: *Fenpicoxamid.*
- Definition of the residue for compliance with the MRL and dietary risk assessment for milk and tissues of mammals (other than marine mammals): *2-benzyl-2,5-dideoxy-4-O-{N- [(3-hydroxy-4-methoxypyridin- 2-yl)carbonyl]-L-seryl}-L-arabinoic acid (X12326349), expressed as fenpicoxamid*.
- The residue is not fat-soluble.

Fluopyram (243)

Fluopyram (243) ADI: 0–0.01 mg/kg bw ARfD: 0.5 mg/kg bw	SB 0716	Coffee beans	0.015		0.01	
	SM 0716	Coffee beans, roasted			0.01	
		Instant coffee			0.01	

- Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: *Fluopyram.*
- Definition of the residue for compliance with the MRL for animal commodities: *Sum of fluopyram and 2(trifluoromethyl)benzamide, expressed as fluopyram.*
- Definition of the residue for dietary risk assessment for animal commodities: *Sum of fluopyram, 2(trifluoromethyl)benzamide and the combined residues of the E-olefine and Z-olefine isomers of fluopyram, all expressed as fluopyram*.
- Although fluopyram (parent compound) is fat-soluble, the 2-(trifluoromethyl)benzamide metabolite (the major component of the residue) is not fat-soluble.

Imazalil (110)

Imazalil (110) ADI: 0–0.03 mg/kg bw ARfD: 0.05 mg/kg bw	FC 0001	Citrus Fruit, Group of	15 Po		0.07 (except kumquats) 3.4 (kumquats)	0.36 (except kumquats) 9.9 (kumquats)
	FC 0002	Lemons and limes, Subgroup of	W	15 Po		
	FC 0004	Oranges, Sweet, Sour, Subgroup of	W	8 Po		
	AB 0001	Citrus pulp, dry	70 (dw) Po		15 (dw)	
	OR 0001	Citrus oil, edible	500 Po		97	
	JF 0001	Citrus juice			0.34	
		Citrus canned			0.1	
		Citrus marmalade			0.92	
		Citrus peel (chopped)			1.3	

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
• Definition of the residue for compliance with the MRL for plant and animal commodities: *Imazalil.* • Definition of the residue for dietary risk assessment for plant commodities: *Free and conjugated imazalil*. • Definition of the residue for dietary risk assessment for animal commodities: *Sum of imazalil and the metabolite R061000 ((RS)-3-[2-(2,4-dichlorophenyl)-2-(2,3- dihydroxypropoxy)ethyl]imidazolidine- 2,4-dione (+)-1-[2-(2,4-dichlorophenyl)-2-[(2,3-dihydroxypropyl)oxy]ethyl]-2,5-imidazolidinedione), expressed as imazalil equivalents.* • The residue is not fat-soluble.						
Isoprothiolane (299)						
Isoprothiolane (299) ADI: 0–0.1 mg/kg bw ARfD: Unnecessary	FI 0327	Banana	1		0.0077	
• Definition of the residue for compliance with the MRL for plant commodities: *Isoprothiolane*. • Definition of the residue for dietary risk assessment for rice: *Isoprothiolane*. • Definition of the residue for dietary risk assessment for plants other than rice: *Sum of isoprothiolane, diisopropyl-4-hydroxy-1,3-dithiolan-2-ylidenemalonate (M-3); free and conjugated and 1-hydroxypropan-2-yl propan-2-yl 1,3-dithiolan-2-ylidenemalonate (M-5); free and conjugated, expressed as isoprothiolane.* • Definition of the residue for compliance with the MRL and dietary risk assessment for animal commodities*: Sum of isoprothiolane and 2-(1,3-dithiolan-2-ylidene)-3-oxo-3-(propan-2-yloxy)propanoic acid (M-2), expressed as isoprothiolane.* • The residue is not fat-soluble.						
Isoxaflutole (268)						
Isoxaflutole (268) ADI: 0–0.02 mg/kg bw ARfD: Unnecessary	VD 0541	Soya bean (dry)	0.04		0.02	
	OR 0541	Soya bean oil, refined			0.008	
		Soya bean milk			0.008	
• Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: *Sum of isoxaflutole and isoxaflutole diketonitrile, expressed as isoxaflutole*. • Definition of the residue for compliance with the MRL for animal commodities: *Sum of isoxaflutole and isoxaflutole diketonitrile, expressed as isoxaflutole.* • Definition of the residue for dietary risk assessment for animal commodities: *Sum of isoxaflutole, isoxaflutole diketonitrile, RPA 205834 (2-aminomethylene-l-cyclopropyl-3-(2-mesyl-4-trifluoromethylphenyl)-propane-1,3-dione) and RPA 207048 (1-cyclopropyl-2-hydroxymethylene-3-(2-mesyl-4-trifluoromethylphenyl)-propane-1,3-dione), including their conjugates, expressed as isoxaflutole*. • The residue not fat-soluble.						
Mandipropamid (231)						
Mandipropamid (231) ADI: 0–0.2 mg/kg bw ARfD: Unnecessary	OR 0001	Citrus oil, edible	30		4.5	
	AB 0001	Citrus pulp, dry	1.5		Median: 0.29	
	MO 0105	Edible offal (mammalian)	0.01(*)	0.01(*)	0.0022	
	FC 0002	Lemons and Limes, Subgroup of	0.5		0.01	
	MF 0100	Mammalian fats (except milk fats)	0.02	0.01(*)	0.0064	
	FC 0003	Mandarins, Subgroup of	0.5		0.01	
	FC 0004	Oranges, Sweet, Sour (including Orange-like hybrids), Subgroup of	0.4		0.01	
	FC 0005	Pummelo and Grapefruits (including Shaddock-like hybrids, among other Grapefruit), Subgroup of	0.2		0.01	

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
		Citrus flesh (excluding kumquat commodities)			0.01	
	JF 0203	Grapefruit juice			0.0024	
	FC 0303	Kumquat, raw (including juice)			0.098	
		Lemon/lime/mandarin juice			0.0042	
	JF 0004	Orange juice			0.0043	
• Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: *Mandipropamid*. • The residue is not fat-soluble.						
Methoprene (147)						
Methoprene (147) ADI: 0-0.09 mg/kg bw for the R,S racemate; 0- 0.05 mg/kg bw for S-methoprene ARfD: Unnecessary	VD 0541	Soya bean (dry)	3 Po		2.4	
• Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: *Methoprene*. • The residue is fat-soluble.						
Methoxyfenozide (209)						
Methoxyfenozide (209) ADI: 0–0.1 mg/kg bw ARfD: 0.9 mg/kg bw	DH 0722	Basil, dry	400		100	194
	HH 0722	Basil, leaves	80		19	47
	SB 0716	Coffee bean	0.15		0.0275	
	GS 0659	Sugar cane	0.015		0.01	0.01
	DM 0659	Sugar cane molasses	0.1		0.07	
	DT 1114	Tea, Green, Black (black, fermented and dried)	80		28.5	
		Brown sugar			0.06	
		Tea infusion			0.14	
• Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: *Methoxyfenozide*. • The residue is fat-soluble, but is not classified as fat-soluble with respect to its distribution in milk.						
• **Prothioconazole (232)**						
Prothioconazole (232) ADI: 0–0.05 mg/kg bw ARfD: 0.8 mg/kg bw (for women of child-bearing age) ARfD: Unnecessary (general population) **Prothioconazole-desthio:** ADI: 0–0.01 mg/kg bw ARfD: 0.01 mg/kg bw (woman of child-bearing age) ARfD: 1 mg/kg bw	MO 0105	Edible offal (Mammalian)	0.15	0.3	Liver: 0.077 Kidney: 0.049	Liver: 0.291 Kidney: 0.191
	PE 0112	Eggs	0.005(*)	0.005(*)	0.001	0.001
	SO 0693	Linseed	0.03		0.014	
	MF 0100	Mammalian fats (except milk fats)	0.01	0.02	0.005	0.023
	MM 0095	Meat (from mammals other than marine mammals)	0.01	0.01	Muscle: 0.004 Fat: 0.005	Muscle: 0.007 Fat: 0.023
	ML 0106	Milks	0.004(*)	0.004(*)	0.001	
	PO 0111	Poultry, Edible offal of	0.01	0.1	0.118	0.118
	PF 0111	Poultry, fats	0.01	0.01(*)	0.0129	0.0129

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
(general population)	PM 0110	Poultry meat	0.01(*)	0.01(*)	Muscle: 0.0026 Fat: 0.0129	Muscle: 0.0026 Fat: 0.0129
	SO 0495	Rape seed	0.2	0.1	0.039	
	OR 0495	Rape seed oil, Edible	0.15		0.0273	
	SO 2091	Sunflower seeds, Subgroup of	0.5		0.009	
	OC 0702	Sunflower seed oil, crude	0.5		0.0096	
• Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: *Prothioconazole-desthio*. • Definition of the residue for compliance with the MRL for animal commodities: *Prothioconazole-desthio*. • Definition of the residue for dietary risk assessment for animal commodities: *Sum of prothioconazole-desthio, prothioconazole-desthio-3-hydroxy, prothioconazole-desthio-4-hydroxy and their conjugates expressed as prothioconazole-desthio*. • The residue is not fat-soluble.						
Pydiflumetofen (309)						
Pydiflumetofen (309) ADI: 0–0.1 mg/kg bw ARfD: 0.3 mg/kg bw	AM 0660	Almond hulls	10 (dw)		Median: 1.6 (as)	
	VP 2060	Beans with pods, Subgroup of	0.7		0.045	0.47
	VB 0040	Brassica vegetables (except Brassica leafy vegetables), Group of	W	0.1		
	VA 2031	Bulb onions, Subgroup of	0.3		0.07	0.20
	FB 2006	Bush berries, Subgroup of	5		0.88	3.9
	FS 0013	Cherries, Subgroup of	2		0.395	1.7
	FC 0001	Citrus Fruit, Group of	0.9		0.05 (except kumquats) 0.21 (kumquats)	0.16 (except kumquats) 0.76 (kumquats)
	OR 0001	Citrus oil, edible	40		9.1	
	AB 0001	Citrus pulp, dry	1.5		0.30	
	SO 0691	Cottonseed	0.02 [a]	0.3	0.02 [a]	
	MO 0105	Edible offal (mammalian)	0.1	0.1	Liver: 0.09 Kidney: 0.09	Liver: 0.44 Kidney: 0.30
	PE 0112	Eggs	0.02	0.02	0.02	0.023
	FB 0267	Elderberries	5		0.88	3.9
	VB 0042	Flowerhead Brassicas, Subgroup of	3		0.39	1.5
	VA 2032	Green onions, Subgroup of	1.5		0.36	1.39
	VB 2036	Head Brassicas, Subgroup of	2		0.065	0.22
	VL 2052	Leaves of root and tuber vegetables, Subgroup of (except leaves of tuber vegetables)	W	0.07		
	VP 0060	Legume vegetables, Group of	W	0.02		

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	FB 2009	Low growing berries, Subgroup of (except cranberries)	1		0.185	0.62
	MF 0100	Mammalian fats (except milk fats)	0.1	0.1	0.02	0.07
	MM 0095	Meat (from mammals other than marine mammals)	0.1 (fat)	0.1 (fat)	Muscle: 0.02 Fat: 0.02	Muscle: 0.02 Fat: 0.07
	ML 0106	Milks	0.01(*)	0.01(*)	0.02	
	FS 2001	Peaches, Subgroup of	1		0.21	0.80
	VP 2061	Peas with pods, Subgroup of	1.5		0.12	0.84
	DF 0014	Prunes	1.5		0.34	0.85
	FS 0014	Plums, Subgroup of	0.6		0.15	0.37
	FP 0009	Pome fruit, Group of, except Persimmon, Japanese	0.2		0.06	0.13
	PO 0111	Poultry, Edible offal of	0.01(*)	0.01(*)	0.02 (liver)	0.02 (liver)
	PF 0111	Poultry fats	0.01(*)	0.01(*)	0.02	0.02
	PM 0110	Poultry meat	0.01(*)	0.01(*)	0.02	0.02
	VR 2070	Root vegetables, Subgroup of	0.3	0.1	0.08	0.25
	GC 2089	Sorghum Grain and Millet, Subgroup of	W	0.03		
	GC 2089	Sorghum Grain and Millet, Subgroup of, except grain sorghum	0.03		0.03	
	GC 0651	Sorghum Grain	3		0.515	
	AS 0651	Sorghum straw and fodder, dry	10 (dw)	0.3 (dw)	Median: 0.50 (dw)	Highest: 7.6 (dw)
	VB 2016	Stem Brassicas, Subgroup of	0.1 [a]		0.02 [a]	0.09 [a]
	VP 2062	Succulent beans without pods, Subgroup of	0.15		0.033	0.099
	VP 2063	Succulent peas without pods, Subgroup of	0.05		0.031	0.042
	AV 0596	Sugar beet leaves or tops	40 (dw)		Median:1.50 (as)	Highest: 8.0 (as)
	SO 2091	Sunflower seeds, Subgroup of	0.5	0.3	0.09	
	TN 0085	Tree nuts, Group of	0.05		0.01	0.03
	VP 2064	Underground immature beans and peas, Subgroup of	0.02 [a]		0.02 [a]	0.02 [a]
	JF 0226	Apple juice			0.004	
		Apple sauce			0.004	
		Apple, canned			0.002	
	DF 0226	Apples, dried			0.02	0.05
	JF 0001	Citrus juice			0.004	
		Citrus peel			0.39	1.4
	OR 0691	Cotton seed oil (refined)			0.0006 [a]	

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
		Pear, canned			0.004	
		Pear, dried			0.03	0.08
		Pear juice			0.006	
		Sugar beet refined sugar			0.004	
		Sorghum flour			0.45	
	OR 0702	Sunflower oil, edible			0.005	
[a] based on rotational crops • Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: *Pydiflumetofen*. • Definition of the residue for compliance with the MRL for animal commodities: *Pydiflumetofen*. • Definition of the residue for dietary risk assessment for animal commodities other than mammalian liver and kidney: *Sum of pydiflumetofen and 2,4,6-trichlorophenol (2,4,6-TCP) and its conjugates, expressed as pydiflumetofen*. • Definition of the residue for dietary risk assessment for mammalian liver and kidney: *Sum of pydiflumetofen, 2,4,6-trichlorophenol (2,4,6-TCP) and its conjugates and 3-(difluoromethyl)-N-methoxy-1-methyl-N-[1-methyl-2-(2,4,6-trichloro-3-hydroxy- phenyl) ethyl]pyrazole-4-carboxamide (SYN547897) and its conjugates, expressed as pydiflumetofen*. • The residue is fat-soluble.						
Quinoxyfen (222)						
Quinoxyfen (222) ADI: 0–0.2 mg/kg bw ARfD: Unnecessary	FS 0013	Cherries	W	0.4		
	FS 0013	Cherries, Subgroup of (except Choke cherries)	0.5		0.14	
• Definition of the residue for compliance with the MRL and dietary risk assessment: *Quinoxyfen*. • The residue is fat-soluble.						
Spinetoram (233)						
Spinetoram (233) ADI: 0–0.05 mg/kg bw ARfD: Unnecessary	FI 2540	Pitaya	0.5		0.0915	
	DT 1114	Tea, Green, Black (black, fermented and dried)	70		118	
• Definition of the residue for compliance with the MRL for plant and animal commodities: *Spinetoram*. • Definition of the residue for dietary risk assessment for plant and animal commodities: *Spinetoram and N-demethyl and N-formyl metabolites of the major spinetoram component*. • The residue is fat-soluble.						
Sulfoxaflor (252)						
Sulfoxaflor (252) ADI: 0–0.05 mg/kg bw ARfD: 0.3 mg/kg bw	VS 0621	Asparagus	0.015		0.01	0.011
	FI 0326	Avocado	0.15		0.011	0.036
	FB 2006	Bush berries, Subgroup of	2		0.39	1.4
	FB 2005	Cane berries, Subgroup of	1.5		0.44	0.78
	SB 0716	Coffee beans	0.3		0.035	
	FB 0267	Elderberry	2		0.39	1.4
	FI 0345	Mango	0.3		0.022	0.061
		Coffee (instant)			0.084	
	SM 0716	Coffee beans, roasted			0.0167	
• Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: *Sulfoxaflor*. • The residue is not fat-soluble.						
Tebuconazole (189)						
Tebuconazole (189) ADI: 0-0.03 mg/kg bw	SB 0716	Coffee beans	0.4	0.1	0.04	
	SM 0716	Coffee beans, roasted			0.08	

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
ARfD: 0.3 mg/kg bw		Freeze dried (instant) coffee			0.032	
• Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: *Tebuconazole*. • Residue is not fat-soluble.						
Thiamethoxam (245)						
Thiamethoxam (245) ADI: 0-0.08 mg/kg bw ARfD: 1 mg/kg bw	CF 0640	Barley bran	1.5		0.269	
		Barley hay	8 (dw)		0.2 (as)	6.7 (as)
	AS 0640	Barley straw and fodder, dry	8 (dw)	2	0.53 (as)	6.7 (as)
	GC 0640	Barley	0.5		0.112	
	MO 0105	Edible offal (mammalian)	0.05	0.01(*)	0.025	0.041
	PE 0112	Eggs	0.01(*)	0.01(*)	0.028	0.028
	MF 0100	Mammalian fats (except milk fats)	0.01(*)		0.01	0.01
	MM 0095	Meat (from mammals other than marine mammals	0.07	0.02	0.033	0.062
	ML 0106	Milks	0.15	0.05	0.096	
		Oat hay	8 (dw)		0.2 (as)	6.7 (as)
	AS 0647	Oat straw and fodder, dry	8 (dw)		0.53 (as)	6.7 (as)
	GC 0647	Oats	0.5		0.112	
	FP 0307	Persimmon, Japanese	0.6		0.165	0.26
	PF 0111	Poultry fats	0.01(*)		0.033	0.033
	PM 0110	Poultry meat	0.03	0.01(*)	0.064	0.064
	PO 0111	Poultry, edible offal of	0.01(*)	0.01(*)	0.36	0.36
	GC 0649	Rice	50		17	
	CM 1206	Rice bran	30		9.35	
	CM 1207	Rice hulls	300		95.2	
	AS 0649	Rice straw and fodder, dry	3 (dw)		0.47 (as)	1 (as)
	CM 0649	Rice, husked	5		1.7	
	CM 1205	Rice, polished	3		0.704	
		Rye hay	8 (dw)		0.2 (as)	6.7 (as)
	AS 0651	Sorghum straw and fodder (dry)	0.8 (dw)		0.14 (as)	0.49 (as)
	GC 0651	Sorghum grain	0.6		0.079	
	GS 0658	Sorgo or sorghum, sweet	0.6		0.033	0.24
	GC 2090	Sweet corns, Subgroup of	0.01(*)		0.01	0.01
	AS 0447	Sweet corn fodder	0.25 (dw)		0.0165 (as)	0.099 (as)
	GC 0653	Triticale	0.15		0.032	
		Triticale hay	8 (dw)		0.2 (as)	6.7 (as)
	AS 0653	Triticale straw and fodder, dry	8 (dw)		0.53 (as)	6.7 (as)
	GC 0654	Wheat	0.15		0.032	

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	CF 0654	Wheat bran	0.4		0.0768	
	CF 1210	Wheat germ	0.3		0.0464	
		Wheat hay	8 (dw)		0.2 (as)	6.7 (as)
	AS 0654	Wheat straw and fodder, dry	8 (dw)	2	0.53 (as)	6.7 (as)
		Barley flour			0.0118	
		Sorghum (grain) flour			0.0548	
		Sorghum (sweet) syrup			0.0267	
		Triticale flour			0.00336	
		Wheat and triticale flour			0.00336	
• Definition of the residue for compliance with the MRL for animal and plant commodities: *Thiamethoxam*. • Definition of the residue for dietary risk assessment for plant and animal commodities (except poultry): *Thiamethoxam* and *clothianidin* (considered separately). • Definition of the residue for dietary risk assessment for poultry: *Sum of thiamethoxam, CGA 265307 and MU3, expressed as thiamethoxam*; and *clothianidin* (clothianidin to be considered separately from thiamethoxam). • The residue is not fat-soluble.						
Trifloxystrobin (213)						
Trifloxystrobin (213) ADI: 0–0.04 mg/kg bw ARfD: Unnecessary	VP 2060	Beans with pods, Subgroup of	0.5		0.09	
	FB 0261	Bilberry	3		0.33	
	FB 0263	Bilberry, red	3		0.33	
	FB 0020	Blueberries	3		0.33	
	FB 2005	Cane berries, Subgroup of	3		0.56	
	FC 0001	Citrus fruits	W	0.5		
	AB 0001	Citrus pulp, dry	W	1		
	SB 0716	Coffee beans	0.015		0.01	
	FB 0021	Currant, black, red, white	3		0.33	
	VL 0470	Corn salad	15		3.3	
	MO 0105	Edible offal (mammalian)	0.09		Kidney 0.04 Liver 0.04	
	PE 0112	Eggs	0.04(*)	0.04(*)	0.0046	
	FB 0268	Gooseberry	3		0.33	
	MO 0098	Kidney of cattle, goats, pig and sheep	W	0.04(*)		
	VL 0483	Lettuce, leaf	15		3.3	
	SO 0693	Linseed	0.4		0.015	
	MO 0099	Liver of cattle, goats, pigs & sheep	W	0.05		
	MF 0100	Mammalian fats (except milk fats)	0.07		0.04	
	MM 0095	Meat (from mammals other than marine mammals)	0.07 (fat)	0.05 (fat)	Fat 0.04 Muscle 0.007	
	ML 0106	Milks	0.02(*)	0.02(*)	0.003	
	VP 2061	Peas with pods, Subgroup of	1.5		0.073	
	PF 0111	Poultry fats	0.04(*)		0.0046	

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	PM 0110	Poultry meat	0.04(*) (fat)	0.04(*)(fat)	0.0046	
	PO 0111	Poultry, edible offal of	0.04(*)	0.04(*)	0.0046	
	FB 0273	Rose hips	3		0.33	
		Coffee, instant			0.0015	
	SM 0716	Coffee beans, roasted			0.0015	
		Linseed oil, refined			0.012	
• Definition of the residue for compliance with the MRL for plant commodities: *Trifloxystrobin*. • Definition of the residue for dietary risk assessment for plant commodities: *Sum of trifloxystrobin and [(E,E)-methoxyimino-{2-[1-(3-trifluoromethylphenyl)ethylideneaminooxymethyl]phenyl}acetic acid] (CGA 321113), expressed as trifloxystrobin*. • Definition of the residue for compliance with the MRL dietary risk assessment for animal commodities: *Sum of trifloxystrobin and [(E,E)- methoxyimino-{2-[1-(3-trifluoromethylphenyl)ethylideneamino-oxymethyl]phenyl}acetic acid] (CGA 321113), expressed as trifloxystrobin*. • The residue is fat-soluble.						
Trinexapac-ethyl (271)						
Trinexapac-ethyl (271) ADI: 0–0.3 mg/kg bw ARfD: Unnecessary	CF 0640	Barley bran, processed	4	6	0.63	
	GC 0649	Rice	0.5		0.064	
	CM 1205	Rice polished	0.7		0.08	
		Rice bran	3		0.33	
	AS 0649	Rice straw and fodder, dry	0.08 (dw)		Median: 0.014 (as)	Highest: 0.045 (as)
	GC 0650	Rye	3		0.57	
	AS 0650	Rye straw and fodder, dry	0.9 (dw)		Median: 0.19 (dw)	Highest: 1.34 (dw)
	CM 0654	Wheat bran, unprocessed	5	8	0.68	
		Barley flour			0.25	
		Barley, pearled			0.30	
		Barley malt			0.28	
		Barley beer			0.03	
		Wheat, white flour			0.23	
	CF 1210	Wheat germ			0.38	
		Wheat gluten			0.14	
		Wheat starch			0.046	
		Wheat whole meal bread			0.35	
• Definition of the residue for compliance with the MRL for plant and animal commodities and for dietary risk assessment for animal commodities: *Trinexapac acid*. • Definition of the residue for dietary risk assessment for plant commodities: *Trinexapac acid and its conjugates, expressed as trinexapac acid*. • The residue is not fat-soluble.						

Regular JMPR Meeting
Annex 2:
Acceptable daily intakes, acute reference doses, recommended maximum residue levels, supervised trials median residue values and other values recorded by the 2021 JMPR Meeting
Original Language Only

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Afidopyropen (312)						
Afidopyropen (312) ADI: 0–0.08 mg/kg bw ARfD: 0.2 mg/kg bw (for women of child-bearing age) ARfD: 0.3 mg/kg bw (for general population)	• Definition of the residue for compliance with the MRL for plant commodities: *Afidopyropen.* • Definition of the residue for dietary risk assessment for plant commodities: *Sum of afidopyropen + dimer of [(3R,6R,6aR,12S,12bR)-3-[(cyclopropanecarbonyl)oxy]-6,12-dihydroxy-4,6a,12b-trimethyl-11-oxo-9-(pyridin-3-yl)-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-2H,11H-naphtho[2,1-b]pyrano[3,4-e]pyran-4-yl]methyl rac-cyclopropanecarboxylate (M007).* • Definition of the residue for compliance with the MRL for animal commodities: *Afidopyropen* • Definition of the residue for dietary risk assessment for animal commodities, excluding liver: *Afidopyropen + (3S,4R,4aR,6S, 6aS, 12R,12aS,12bS)-3,6,12-trihydroxy-4-(hydroxymethyl)-4,6a, 12b-trimethyl--9-(pyridin-3-yl)-1, 3,4,4a,5,6,6a,12, 12a,12b-decahydro-2H,11H-benzo- [f] pyrano[4,3-b]chromen-11-one (M001) + Cyclopropane carboxylic acid (CPCA/M061) and (2R)-3-carboxy-2-[(cyclopropylcarbonyl)oxy]- N, N, N-trimethylpropan-1- aminium chloride (CPCA-carnitine conjugate/M060), expressed as afidopyropen*. • Definition of the residue for dietary risk assessment for animal commodities, liver: *Afidopyropen + (3S,4R,4aR,6S, 6aS, 12R,12aS,12bS)-3,6,12-trihydroxy-4-(hydroxymethyl)-4,6a, 12b-trimethyl--9-(pyridin-3-yl)-1, 3,4,4a,5,6,6a,12, 12a,12b-decahydro-2H,11H-benzo- [f] pyrano[4,3-b]chromen-11-one (M001) + Cyclopropane carboxylic acid (CPCA/M061) and (2R)-3-carboxy-2-[(cyclopropylcarbonyl)oxy]- N, N, N-trimethylpropan-1- aminium chloride (CPCA-carnitine conjugate/M060) + [(3S,4R,4aR,6S,6aS,12R,12aS,12bS)-3-(cyclopropylcarbonyl)oxy]-6,12-dihydroxy-4,6a,12b-trimethyl-9-(1-oxidopyridin-3-yl)-11-oxo-1,3,4,4a,5,6,6a,12,12a,12b-decahydro-2H, 11H-benzo[f]pyrano[4,3-b]chromen-4-yl]methyl cyclopropane-carboxylate (M017), expressed as afidopyropen*. • The residue is not fat-soluble.				
Fenpyroximate (193)						
Fenpyroximate (193)[b] ADI: 0–0.005 mg/kg bw ARfD: 0.005 mg/kg bw	FC 0001	Citrus Fruit, Group of	W	0.6		
	FC 0002	Lemons and Limes (including Citron), Subgroup of	1	-	0.37 (RAC)	0.59 (RAC)
					0.085 (flesh)	0.14 (flesh)
	FC 0003	Mandarins (including Mandarin-like hybrids), Subgroup of	1 [a]	-	0.37 (RAC)	0.59 (RAC)
					0.085 (flesh)	0.14 (flesh)
	FC 0004	Oranges, sweet, sour (including orange-like hybrids), Subgroup of	0.7 [a]	-	0.225 (RAC)	0.48 (RAC)
					0.052 (flesh)	0.11 (flesh)
	FC 0005	Pummelo and Grapefruits (including Shaddock-like hybrids), Subgroup of	0.5	-	0.19 (RAC)	0.32 (RAC)
					0.044 (flesh)	0.074 (flesh)
	FS 0014	Plums (including fresh Prunes), Subgroup of	0.05	0.8	0.025 (RAC)	0.040 (RAC)

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	FB 0272	Raspberries, Red, Black	W	0.2		
	FB 2005	Cane berries, Subgroup of	3 [a]	-	0.84	1.4
	FB 2006	Bush berries, Subgroup of	2 [a]	-	0.8	1.2
	VC 0424	Cucumber	W	0.3		
	VC 0431	Squash, summer	W	0.06		
	VC 2039	Cucumbers and Summer squashes, Subgroup of	0.3 [a]	-	0.12	0.24
	VP 2062	Succulent beans without pods, Subgroup of	0.05*	-	0.1	0.1
	VS 2080	Stems and petioles, Subgroup of	3 [a]	-	0.845	2.1
	ML 0106	Milks	0.01	0.01	0.005	-
	MM 0095	Meat (from mammals other than marine mammals)	0.2 (fat)	0.1 (fat)	0.015 (muscle)	0.041 (muscle)
					0.063 (fat)	0.13 (fat)
	MF 0100	Mammalian fats (except milk fats)	0.2	0.1	0.063	0.13
	MO 0105	Edible offal (mammalian)	0.8	0.5	0.4	0.77
		Subgroup of Succulent beans without pods, cooked			0.06	0.06
		Subgroup of Succulent beans without pods, canned			0.044	0.044
		Subgroup of Lemons and Limes, juice			0.037	-
		Subgroup of Mandarins, juice			0.037	-
		Subgroup of Oranges, juice			0.022	-
		Subgroup of Pummelo and Grapefruits, juice			0.019	-
		Subgroup of Lemons and Limes, marmalade			0.018	-
		Subgroup of Mandarins, marmalade			0.018	-
		Subgroup of Oranges, marmalade			0.011	-
		Subgroup of Pummelo and Grapefruits, marmalade			0.0094	-
	OR 0004	Orange oil, edible	W	25		
		Subgroup of Lemons and Limes, oil	150		58	
		Subgroup of Mandarins, oil	150		58	
		Subgroup of Oranges, oil	100		35	
		Subgroup of Pummelo and Grapefruits, oil	80		30	
		Subgroup of Plums, dried (prunes)	0.15		0.05	0.08
		Subgroup of Plums, juice			0.012	

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
		Subgroup of Plums, jam			0.012	
		Subgroup of Plums, puree			0.012	
		Subgroup of Lemons and Limes, dried pulp	6 (dw)		1.8	-
		Subgroup of Oranges, dried pulp	4 (dw)		1.1	-
		Subgroup of Pummelo and Grapefruits, dried pulp	3 (dw)		0.95	-
	RAC: Raw Agricultural Commodity					
	[a] On the basis of the information provided to the JMPR it was concluded that the estimated acute dietary exposure to residues of fenpyroximate for the consumption of commodities from the subgroups of Mandarins, Oranges, sweet, sour, Cane berries, Bush berries, Cucumbers and Summer squash, and Stems and Petioles may present a public health concern.					
	[b] As the current Meeting revised the ARfD for fenpyroximate, a new acute dietary risk assessment for all recommendations made by the 2017 and 2018 JMPRs was conducted in addition to those commodities considered by the current Meeting. ***Based on the revised ARfD, the current Meeting confirmed the 2017 JMPR conclusion that the estimated acute dietary exposure to residues of fenpyroximate for the consumption of commodities from FS 0013 Subgroup of cherries, FS 0247 Peach, VC 0432 Watermelon may present a public health concern. Alternative GAP data were available for plums, so the 2017 JMPR exceedances noted for FS 0014 Plums and dried plum no longer exist.*** ***In addition, the current Meeting also concluded, based on the revised ARfD, that the estimated acute dietary exposure to residues of fenpyroximate for the consumption of commodities FP 0226 Apple, FP 0230 Pear, FS 0240 Apricot, VC 0046 Melons (except watermelon), VO 2045 Subgroup of Tomatoes, VO 2046 Subgroup of Eggplants, VP 2060 Subgroup of Beans with pods as previously considered by the 2017 and 2018 JMPRs may present a public health concern.***					
	• Definition of the residue for compliance with the MRL for plant commodities: F*enpyroximate.* • Definition of the residue for dietary risk assessment for plant commodities and for dietary burden calculations: *Sum of parent fenpyroximate and tert-butyl (Z)-α-(1,3-dimethyl-5-phenoxypyrazol-4-ylmethyleneamino-oxy)-p-toluate (its Z-isomer M-1), expressed as fenpyroximate*. • Definition of the residue for compliance with the MRL for animal commodities: *Sum of fenpyroximate and (E)-4-[(1,3-dimethyl-5-phenoxypyrazol-4-yl) methyleneaminooxymethyl]benzoic acid (M-3), expressed as fenpyroximate*. • Definition of the residue for dietary risk assessment for animal commodities: *Sum of fenpyroximate, 2-hydroxymethyl-2-propyl (E)-4-[(1,3-dimethyl-5-phenoxypyrazol-4-yl)-methylenaminooxymethyl]benzoate (Fen-OH), 2-hydroxy-2-methylpropyl (E)-α-(1,3-dimethyl-5-phenoxypyrazol-4-ylmethyleneamino-oxy)-p-toluate (R-UL-1) and (E)-4-[(1,3-dimethyl-5-phenoxypyrazol-4-yl)methyleneaminooxymethyl]benzoic acid (M-3), expressed as fenpyroximate.* • The residue is fat-soluble.					
Fipronil (202)						
Fipronil (202)** [a] ADI: 0–0.0002 mg/kg bw ARfD: 0.03 mg/kg bw	FI 0327	Banana	0.004 *	0.005	0	0
	GC 0640	Barley	W	0.002*		
	GC 2087	Barley, similar grains, and pseudocereals with husks, Subgroup of	0.004 *		0.00536	
	AS 0640	Barley, straw and fodder dry *Barley, hay and/or straw [#]*	0.07 dw			
	HH 0722	Basil, leaves	0.8	1.5	0.23	0.57

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	VD 2065	Dry beans, Subgroup of (except soya beans)	0.01		0.002	
	VB 0041	Cabbage, head	W	0.02		
	MO 1280	Cattle, kidney	W	0.02		
	MO 1281	Cattle, liver	W	0.1		
	MM 0812	Cattle meat	W	0.5 (fat)		
	ML 0812	Cattle milk	W	0.02		
	SO 0691	Cottonseed	0.01		0.002	
	PE 0112	Eggs	0.04	0.02	0.0358	0.06141
	VB 0042	Flowerhead Brassicas, Subgroup of	W	0.02		
	VL 0053	Leafy vegetables, Group of	0.01 [b]		0	0.02919
	VP 2060	Beans with pods, Subgroup of	0.01		0.008	0.0099
	GC 0645	Maize	W	0.01		
	GC 2091	Maize cereals, Subgroup of	0.01		0.004	
	AS 0645	Maize fodder (dry)	W	0.1 dw		
	GC 0647	Oats	W	0.002*		
	AS0647	Oat straw and fodder dry	0.07 dw			
	AS 3554 [#]	*Oat, hay and/or straw* [#]				
	VA 0385	Onion, bulb	0.03		0.02	0.033
	VR 0589	Potato	0.05	0.02	0.00493	0.0296
	PF 0111	Poultry fats	0.07	0.02	0.04698	0.1006
	PM 0110	Poultry meat	0.007	0.01*	0.00486 muscle 0.04698 fat	0.01169muscle 0.1006 fat
	PO 0111	Poultry, Edible offal of	0.03	0.02	0.03227 Liver	0.04231 Liver
	GC 0649	Rice	W	0.01		
	GC 2088	Rice cereals, Subgroup of	0.4		0.00411	
	CM 0649	Rice, husked	0.4		0.0023	
	CM 1205	Rice, polished	0.15		0.002	
	CM 1206	Rice bran, unprocessed	2		0.00323	
	CM 1207	Rice hulls	2			
	AS 0649	Rice straw and fodder, Dry	0.6 dw	0.2 dw		
		Rice, hay and/or straw [#]				
	VR 0075	Root and Tuber vegetables, Group of (except potato and sugar beet)	0.002 [b]		0	0.00212
	GC 0650	Rye	W	0.002*		
	AS 0650	Rye straw and fodder dry	0.05 dw			
	AS 3555 [#]	*Rye, hay and/or straw* [#]				
	VD 0541	Soya bean (dry)	0.01		0.00411	

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	AB 0541	Soya bean hulls	0.06			
	AL 3538 #					
	AS 0081#	Straw and fodder (dry) of cereal grains (except of barley, oats, rice, rye, triticale and wheat)	0.03 [b] dw			
	VR 0596	Sugar beet	0.01	0.2	0.003	
	GS 0659	Sugar cane	0.01		0.00304	0.00815
	SO 0702	Sunflower seed	W	0.002*		
	SO 2091	Sunflower seeds, Subgroup of	0.004 *		0.008	
	VO 2045	Tomato, Subgroup of	0.01 *		0.008	0.008
	GC 0653	Triticale	W	0.002*		
	AS 0653	Triticale straw and fodder dry	0.05 dw			
		Triticale, hay and/or straw #				
	GC 0654	Wheat	W	0.002*		
	GC2086	Wheat, similar grains, and pseudocereals with husks, Subgroup of	0.004 *		0.008	
	AS 0654	Wheat straw and fodder dry	0.05 dw			
		Wheat, hay and/or straw #				
	MO 0105	Edible offal (Mammalian)	0.1		0.09145 Liver	0.32752 Liver
	MF 0100	Mammalian fats (except milk fats)	0.4		0.17625	0.65651
	MM 0095	Meat (from mammals other than marine mammals)	0.03		0.0085 muscle 0.17625 fat	0.04926 muscle 0.65651 fat
	ML 0106	Milks	0.03		0.00845	0.04321
	FM 0183	Milk fats	0.3		0.12	0.59
	OC 0541	Soya bean oil, crude	0.05		0.01808	
		Potato washed			0.00244	0.01465
		Potato peeled			0.00158	0.00947
		Potato, cooked peeled			0.00121	0.00725
		Potato, microwave unpeeled			0.00333	0.01998
		Potato, French fries			0.00182	0.01095
		Potato flakes			0.00222	
	DV 0589#	*Potato, flakes/granules*				
	CF 3513	Rice, flour			0.00053	
		Rice, polished cooked			0.00016	
		Rice polished steamed			0.00012	
		Sake			0.00008	
		Sugarcane juice			0.00182	

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	DM 0659	Sugar cane molasses			0.00007	
	DM3524	Sugar cane, sugar refined			0.00007	
	OC 0691	Cotton seed oil, crude			0.0008	
	OR 0691	Cotton seed oil, edible			0.0006	
	[a] ***On the basis of the information provided to the JMPR it was concluded that the estimated long-term dietary exposure to residues of fipronil may present a public health concern***. [b] residues resulting from rotational cropping					
	[#] *New codes and/or commodity names as agreed by CCPR 52 and proposed for adoption by CAC 43*;					
	• Definition of the residue for compliance with the MRL for plant and animal commodities: *Sum of fipronil and 5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylsulfonylpyrazole (MB46136) expressed in terms of fipronil*. • Definition of the residue for dietary risk assessment for plant and animal commodities: *Sum of fipronil and 5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylsulfonylpyrazole (MB46136), 5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylthiopyrazole (MB45950) and 5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethylpyrazole (MB46513) expressed in terms of fipronil.* • The residue is fat-soluble.					
Fluensulfone (265)						
Fluensulfone (265) ADI: 0–0.01 mg/kg bw ARfD: 0.3 mg/kg bw	FP 0009	Pome fruits, Group of (except Persimmon, Japanese)	0.3	0.2	0	0
• Definition of the residue for compliance with the MRL for plant commodities: S*um of fluensulfone and 3,4,4-trifluorobut-3-ene-1-sulfonic acid (BSA), expressed as fluensulfone equivalents.* • Definition of the residue for compliance with the MRL for animal commodities: *Fluensulfone.* • Definition of the residue for dietary risk assessment for plant and animal commodities: *Fluensulfone.* • The residue is fat-soluble.						
• **Flutianil (319)**						
Flutianil (319)* ADI: 0–0.8 mg/kg bw ARfD: Unnecessary	FP 0226	Apple	0.15	-	0.047	
	FS 0013	Cherries, Subgroup of	0.4	-	0.11	
	FB 2008	Small fruit vine climbing, Subgroup of	0.7	-	0.075	
	JF 0226	Apple, juice			0.005	
	JF 0269	Grape, juice			0.05	
	DF 0269	Grape, dried (=Currants, Raisins and Sultanas)			0.09	
• Definition of the residue for compliance with the MRL for plant and animal commodities: *Flutianil*. • Definition of the residue for dietary risk assessment for plant commodities: *Sum of flutianil and 2-fluoro-5-(trifluoromethyl)benzenesulfonic acid (OC 56635), expressed as flutianil*. • The residue is fat-soluble.						
Isoprothiolane (299)						
Isoprothiolane (299) ADI: 0–0.1 mg/kg bw ARfD: Unnecessary						

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Mefentrifluconazole (320)						
Mefentrifluconazole (320)* ADI: 0–0.04 mg/kg bw ARfD: 0.3 mg/kg bw						
Metalaxyl (138)						
Metalaxyl (138)** [a] ADI: 0–0.08 mg/kg bw [b] ARfD: 0.5 mg/kg bw [b]	FP 0226	Apple	0.02* (MM)		0	0
	VS 0621	Asparagus	W	0.05*		
	FI 0326	Avocado	W	0.2		
	VB 0400	Broccoli	W	0.5		
	VB 0402	Brussels sprouts	0.15 (M)	0.2	0.44	0.77
	VB 0041	Cabbages, Head	0.08 (MM)	0.5	0.22	0.44
	SB 0715	Cacao bean	W	0.2		
	VR 0577	Carrot	0.02* (MM)	0.05*	0.02	0.02
	VB 0404	Cauliflower	W	0.5		
	GC 0080	Cereal grains	W	0.05		
	FC 0001	Citrus fruits, Group of	W	5		
	SO 0691	Cottonseed	W	0.05*		
	VC 0424	Cucumber	W	0.5		
	VB 0042	Flowered brassicas, Subgroup of	0.2 (M)		0.275	1.21
	VC 0425	Gherkin	W	0.5		
	VR 0604	Ginseng	0.03* (MM)		0.03	0.03
	FB 0269	Grapes	1.5 (MM)	1	0.182	0.884
	JF 0269	Grape, juice			0.073	
		Grape wine			0.138	
	DH 1100	Hops, dry	W	10		
	VL 0482	Lettuce, head	W	2		
	VL 0483	Lettuce, leaf	1.5 (M)		1.43	8.14
	VC 0046	Melons, except Watermelon	0.15 (MM)	0.2	0.013	0.026
	VA 0385	Onion, Bulb	0.03 (MM)	2	0.02	0.02
	FC 0004	Oranges, Sweet, Sour, Subgroup of	0.7 (M)		0.013 (flesh) 0.338 (RAC)	0.026 (flesh) 0.39 (RAC)
	JF 0004	Orange juice			0.016	
		Orange marmalade			0.132	
	OR 0004	Orange oil, edible	7		3.04	
	SO 0697	Peanut	W	0.1		
	FP 0230	Pear	0.02* (MM)		0	0
	VP 0064	Peas, shelled (succulent seeds)	W	0.05*		
	VO 0051	Peppers	W	1		

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	HS 0790	Pepper, black, White, pink, green	2 (MM)		0.455	
	VO 0444	Peppers Chili, dried	W	10		
	FP 0009	Pome fruits	W	1		
	VR 0589	Potato	0.02 (M)	0.05*	0.01	0.02
	FB 0272	Raspberries, red, black	W	0.2		
	VD 0451	Soya bean (dry)	W	0.05*		
	HS 0190	Spices, seeds	W	5 (Mt)		
	VL 0502	Spinach	0.02* (MM)	2	0.22	0.22
	VC 0431	Squash, summer	W	0.2		
	VR 0596	Sugar beet	W	0.05*		
	SO 0702	Sunflower seed	0.01* (MM)	0.05*	0	
	VO 0448	Tomato	W	0.5		
	VO 2045	Tomatoes, Subgroup of	0.3 (MM)		0.058	0.234
	VC 0432	Watermelon	W	0.2		
	VC 0433	Winter squash	W	0.2		
	RAC: Raw Agricultural Commodity					
	[a] Residue data that was the basis for the estimation: metalaxyl (M), metalaxyl-M (MM) or monitoring (Mt) [b] Applies to metalaxyl and metalaxyl-M (alone or in combination)					
	• Residue definition for metalaxyl and metalaxyl-M for compliance with the MRL for plant commodities: *Metalaxyl (sum of enantiomers).* • Residue definition for metalaxyl and metalaxyl-M for dietary risk assessment in plant commodities: *Metalaxyl (sum of enantiomers) and N-(2-hydroxymethyl-6-methylphenyl)-N-(methoxyacetyl)alanine methyl ester (M8; free and conjugated; sum of enantiomers), expressed as metalaxyl*. • Residue definition for metalaxyl and metalaxyl-M for compliance with the MRL in animal commodities: *Sum of metalaxyl (sum of enantiomers) and metabolites (free + conjugated) M3 (N-(2,6-dimethylphenyl)-N-(hydroxyacetyl)alanine methyl ester) and M8 (N-(2-hydroxymethyl-6-methylphenyl)-N-(methoxyacetyl)alanine methyl ester (sum of enantiomers), expressed as metalaxyl.* • Residue definition for metalaxyl and metalaxyl-M for dietary risk assessment in animal commodities: *Sum of metalaxyl (sum of enantiomers) and metabolites (free + conjugated) M1 (N-(2,6-dimethylphenyl)-N-(methoxyacetyl) alanine), M3 (N-(2,6-dimethylphenyl)-N-(hydroxyacetyl)alanine methyl ester), M6 (N-(2,6-dimethylphenyl)-N-(hydroxyacetyl)alanine), M7 (N-(2,6-dimethyl- 5-hydroxyphenyl)-N-(methoxyacetyl)alanine methyl ester) and M8 (N-(2-hydroxymethyl-6-methylphenyl)-N-(methoxyacetyl)alanine methyl ester (sum of enantiomers), expressed as metalaxyl.* • The residue is not fat-soluble.					
Metalaxyl-M (212)						
Metalaxyl-M (212) ADI: 0–0.08 mg/kg bw [b] ARfD: 0.5 mg/kg bw [b]	FP 0226	Apple	W	0.02 *		
	SB 0715	Cacao beans	W	0.02		
	FB 0269	Grapes	W	1		
	VL 0482	Lettuce, head	W	0.5		
	VA 0385	Onion, bulb	W	0.03		
	VO 0445	Peppers, sweet (including pimento or pimiento)	W	0.5		
	VR 0589	Potato	W	0.02 *		

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	VL 0502	Spinach	W	0.1		
	SO 0702	Sunflower seed	W	0.02 *		
	VO 0448	Tomato	W	0.2		
	[b] Applies to metalaxyl and metalaxyl-M (alone or in combination) • Residue definition for metalaxyl and metalaxyl-M for compliance with the MRL for plant commodities: *Metalaxyl (sum of enantiomers).* • Residue definition for metalaxyl and metalaxyl-M for dietary risk assessment in plant commodities: *Metalaxyl (sum of enantiomers) and N-(2-hydroxymethyl-6-methylphenyl)-N-(methoxyacetyl)alanine methyl ester (M8; free and conjugated; sum of enantiomers), expressed as metalaxyl*. • Residue definition for metalaxyl and metalaxyl-M for compliance with the MRL in animal commodities: *Sum of metalaxyl (sum of enantiomers) and metabolites (free + conjugated) M3 (N-(2,6-dimethylphenyl)-N-(hydroxyacetyl)alanine methyl ester) and M8 (N-(2-hydroxymethyl-6-methylphenyl)-N-(methoxyacetyl)alanine methyl ester (sum of enantiomers), expressed as metalaxyl.* • Residue definition for metalaxyl and metalaxyl-M for dietary risk assessment in animal commodities: *Sum of metalaxyl (sum of enantiomers) and metabolites (free + conjugated) M1 (N-(2,6-dimethylphenyl)-N-(methoxyacetyl) alanine), M3 (N-(2,6-dimethylphenyl)-N-(hydroxyacetyl)alanine methyl ester), M6 (N-(2,6-dimethylphenyl)-N-(hydroxyacetyl)alanine), M7 (N-(2,6-dimethyl- 5-hydroxyphenyl)-N-(methoxyacetyl)alanine methyl ester) and M8 (N-(2-hydroxymethyl-6-methylphenyl)-N-(methoxyacetyl)alanine methyl ester (sum of enantiomers), expressed as metalaxyl.* • The residue is not fat-soluble.					
Metconazole (313)						
Metconazole (313) ADI: 0–0.04 mg/kg bw ARfD: 0.04 mg/kg bw Triazole alanine and Triazole acetic ADI: 0–1 mg/kg bw ARfD: Unnecessary 1,2,4-triazole ADI: 0–0.2 mg/kg bw ARfD: 0.3 mg/kg bw	GC 0654	Wheat	0.15		0.035	
	GC 0653	Triticale	0.15		0.035	
	CM 0654	Wheat bran, unprocessed	0.3		0.067	
	CF 1212	Wheat, wholemeal			0.026	
	CF 1211	Wheat, flour			0.008	
	CF 1210	Wheat, germ			0.035	
	CP 1211	White bread			0.021	
	• Definition of the residue for compliance with the MRL for plant and animal commodities: *Metconazole (sum of cis and trans isomer).* • Definition of the residue for dietary risk assessment for plant commodities: *Metconazole (sum of cis and trans isomer).* • Definition of the residue for dietary risk assessment for animal commodities: *Sum of metconazole (cis and trans-isomer) and metabolites (1SR,2SR,5RS)-5-(4-chlorobenzyl)-2-(hydroxymethyl)-2-methyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (M1; free and conjugated) and (1RS,2SR,3RS)-3-(4-chlorobenzyl)-2-hydroxy-1-methyl-2-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanecarboxylic acid (M12; free and conjugated), expressed as metconazole*. • The residue is not fat-soluble.					
Pendimethalin (292)						
Pendimethalin (292) ADI: 0–0.1 mg/kg bw ARfD: 1 mg/kg bw	FB 0269	Grapes	0.05*	-	0.05	0.05
	VA 0384	Leek	0.3	-	0.02	0.23
	VB 0042	Flowerhead Brassicas, Subgroup of	0.01*	-	0	0
	VO 0050	Fruiting vegetables, other than Cucurbits, Group of	0.05*	-	0.05	0.05
	VD 0541	Soya bean (dry)	0.05*	-	0.05	-
	GC 0654	Wheat	0.01*	-	0.01	-

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	GC 0649	Rice	0.01*	-	0	-
	GC 0645	Maize	0.05*	-	0.05	-
	GS 0659	Sugar cane	0.01*		0	-
	SO 0702	Sunflower Seed	0.05*		0.05	-
	HH 0740	Parsley, leaves	1.5		0.305	0.76
	AS 0654	Wheat straw and fodder dry	0.3		0.05	0.17
	Wheat, hay and/or straw [#]					
	AS 0649	Rice straw and fodder, dry	0.01*		0	0
	Rice, hay and/or straw [#]					
	AS 0645	Maize fodder (dry)	0.05*		0.05	0.05
	AS 3552 [#]	*Maize, hay and/or straw* [#]				
	[#] *New codes and/or commodity names as agreed by CCPR 52 and proposed for adoption by CAC43*					
	• Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities: *Pendimethalin*. • The residue is fat-soluble.					
Pyrasulfotole (321)						
Pyrasulfotole (321)* ADI: 0–0.01 mg/kg bw ARfD: Unnecessary	GC 0640	Barley	0.03		0.02	
	AS 0640	Barley straw and fodder, dry	0.8 (dw)		0.21 [a] Hay (dw)	0.50 [b] Hay (dw)
		Barley, hay and/or straw [#]			0.105 [a] Straw (dw)	0.38 [b] Straw (dw)
	MO 0105	Edible offal (Mammalian)	0.5		0.084	
	PE 0112	Eggs	0.02*		0	
	MF 0100	Mammalian fats (except milk fats)	0.02*		0.02	
	MM 0095	Meat (from mammals other than marine mammals)	0.02*		0.02 muscle 0.02 fat	
	ML 0106	Milks	0.01*		0.01	
	GC 0647	Oats	0.15		0.02	
	AS 0647	Oat straw and fodder, dry	0.8 (dw)		0.21 [a] Hay (dw)	0.50 [b] Hay (dw)
	AS 3554 [#]	*Oat, hay and/or straw* [#]			0.105 [a] Straw (dw)	0.38 [b] Straw (dw)
	PM 0110	Poultry meat	0.02*		0.02 muscle 0.02 fat	
	PO 0111	Poultry, Edible offal of	0.05		0.02	
	PF 0111	Poultry fats	0.02*		0.02	

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	GC 0650	Rye	0.02*		0.02	
	AS 0650	Rye, straw and fodder, dry *Rice, hay and/or straw* [#]	0.8 (dw)		0.105 [a] Straw (dw)	0.38 [b] Straw (dw)
	GC 0651	Sorghum Grain	0.5		0.091	
	GC 0653	Triticale	0.02*		0.02	
	AS 0653	Triticale, straw and fodder, dry *Triticale, hay and/or straw* [#]	0.8 (dw)		0.21 [a] Hay (dw)	0.50 [b] Hay (dw)
					0.105 [a] Straw (dw)	0.38 [b] Straw (dw)
	CM 0654	Wheat bran, unprocessed	0.03		0.028	
	GC 0654	Wheat	0.02*		0.02	
	AS 0654	Wheat straw and fodder, dry *Wheat, hay and/or straw* [#]	0.8 (dw)		0.21 [a] Hay (dw)	0.50 [b] Hay (dw)
					0.105 [a] Straw (dw)	0.38 [b] Straw (dw)
	CF 1211	Wheat, flour			0.02	
	CF 1210	Wheat germ			0.016	
	[#] *New codes and/or commodity names as agreed by CCPR 52 and proposed for adoption by CAC43*					
	[a] Median [b] Highest					
	• Definition of the residue for compliance with the MRL and for dietary risk assessment for plant commodities: *Sum of pyrasulfotole and desmethyl-pyrasulfotole and its conjugates, expressed as pyrasulfotole*. • Definition of the residue for compliance with the MRL and for dietary risk assessment for animal commodities: *Sum of pyrasulfotole and desmethyl-pyrasulfotole, expressed as pyrasulfotole.* • The residue is not fat-soluble.					
Pyraziflumid (322)						
Pyraziflumid (322)* ADI: 0–0.02 mg/kg bw ARfD: 2 mg/kg bw	FP 0226	Apple	1.5		0.36	0.73
	JF 0226	Apple juice			0.036	-
	DF 0269	Grape, dried (=Currants, Raisins and Sultanas)	6		1.14	1.96
	MO 0105	Edible offal (mammalian)[a]			0.005	0.005
	FB 0269	Grapes	3		0.57	0.98
	JF 0269	Grape juice			0.057	-
	MF 0100	Mammalian fats (except milk fats)[a]			0.002	0.002
	MM 0095	Meat (from mammals other than marine mammals)[a]			0.0005 (muscle)	0.0005 (muscle)
					0.002 (fat)	0.002 (fat)

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	ML 0106	Milks[a]			0.0001	-
	FP 0230	Pear	1.5		0.36	0.73
	FP 0307	Persimmon, Japanese	1.5		0.36	0.73
	[a] **No maximum residue level recommendation due to the absence of an enforcement method**					
	• Definition of the residue for compliance with the MRL for plant commodities: *Pyraziflumid*. • Definition of the residue for dietary risk assessment for plant commodities: *Pyraziflumid*. • Definition of the residue for compliance with the MRL for animal commodities: *Pyraziflumid and its pyraziflumid-4'-OH metabolite (free), expressed as pyraziflumid.* • Definition of the residue for dietary risk assessment for animal commodities*: Pyraziflumid and its pyraziflumid-4'-OH metabolite (free and conjugated), expressed as pyraziflumid*. • The residue is fat-soluble.					
Spiropidion (323)						
Spiropidion (323)* ADI: 0–0.02 mg/kg bw ARfD: 0.3 mg/kg bw	VC 0424	Cucumber	0.8		0.34	0.7
	VC 0046	Melons (except watermelon)	0.9		0.25	0.91
	VC 0429	Pumpkins	0.9		0.25	0.91
	VC 0432	Watermelon	0.9		0.25	0.91
	VC 0433	Winter squash	0.9		0.25	0.91
	VO 0448	Tomato	0.8		0.245	0.7
	VO 0051	Peppers, Subgroup of (except martynia, okra, roselle)	1		0.49	1.2
	HS 0444	Peppers, Chili, dried	7		2.905	7
	VD 0541	Soya bean (dry)	3		0.49	
	VW 0448	Tomato paste	1.5		0.46 paste 0.27 puree	
	DM 0448[#]	*Tomato, puree*[#]				
	VR 0589	Potato	1.5		0.28	0.98
	DV 0448	Tomato (dried)	7		1.7	4.8
		Soya flour	5		0.79	
	AB 1265	Soya bean meal	5		0.62	
	AL 3539 [#]					
		Potato, flakes	5		0.67	
	DV 0589[#]	*Potato, flakes/granules*[#]				
	MO 0105	Edible offal (mammalian)	0.2		0.098 kidney	0.2 kidney
	MF 0100	Mammalian fats (except milk fats)	0.025		0.013	0.021
	MM 0095	Meat (from mammals other than marine mammals)	0.012 *		0.0065 muscle 0.013 fat	0.01 muscle 0.021 fat
	ML 0106	Milks	0.012 *		0.0057	
	PE 0112	Eggs	0.012 *		0.00089	0.00089

Pesticide (Codex reference number)	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	PM 0110	Poultry meat	0.012 *		0.00041 muscle 0.00035 fat	0.00041muscle 0.00035 fat
	PO 0111	Poultry, edible offal of	0.012 *		0.0033	0.0033
	PF 0111	Poultry fat	0.012 *		0.00035	0.00035
	JF 0448	Tomato juice			0.19	
		Canned tomatoes (peeled)			0.15	0.44
	OR 0541	Soya bean oil, refined			0.01	
		Soya milk			0.039	
		Tofu			0.051	
		Soy sauce			0.02	
		Miso			0.098	
		Potato (peeled)			0.37	1.3
		Potato crisps			0.23	
		Potato (baked, with peel)			0.55	2
		Potato fries (without peel)			0.2	
		Potato starch			0.16	
	[#] *New codes and/or commodity names as agreed by CCPR 52 and proposed for adoption by CAC 43*;					
	• Definition of the residue for compliance with the MRL for plant commodities*: Sum of spiropidion and spiropidion-enol (SYN547305) expressed as spiropidion.* • Definition of the residue for dietary risk assessment for plant commodities: *Sum of spiropidion, spiropidion-enol (SYN547305), 3-(4-chloro-2,6-dimethyl-phenyl)-4-hydroxy-8-methoxy-1,8-diazaspiro[4.5]dec-3-en-2-one (SYN547435) and 3-(4-chloro-2,6-dimethyl-phenyl)-4-hydroxy-1-methyl-1,8-diazaspiro[4.5]dec-3-en-2-one (SYN548430), expressed as spiropidion.* • Definition of the residue for compliance with the MRL for animal commodities: *spiropidion-enol (SYN547305) expressed as spiropidion.* • Definition of the residue for dietary risk assessment for animal commodities: *Free and conjugated spiropidion-enol (SYN547305) expressed as spiropidion.* • The residue is not fat-soluble.					
Tetraniliprole (324)						
Tetraniliprole (324)*						
ADI: 0–2 mg/kg bw ARfD: Unnecessary						