

COMMISSION DU CODEX ALIMENTARIUS



Organisation des Nations Unies
pour l'alimentation
et l'agriculture



Organisation
mondiale de la Santé

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CL 2024/44-PR
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AUX: Points de contact du Codex
Points de contact des organisations internationales ayant le statut d'observateur auprès du Codex

DU: Secrétariat, Commission du Codex Alimentarius,
Programme mixte FAO/OMS sur les normes alimentaires

OBJET: **Demande d'observations à l'étape 3 sur les recommandations des réunions conjointes FAO/OMS sur les résidus de pesticides (JMPR) (2023)¹**

DATE LIMITE: 5 mai 2024

Généralités

1. La réunion conjointe FAO/OMS sur les résidus de pesticides (JMPR) s'est tenue du 19 au 28 septembre 2023.
2. Au cours de la réunion, le Groupe d'experts de la FAO était chargé d'examiner les résidus et les aspects analytiques des pesticides considérés, y compris des données sur leur métabolisme, leur évolution dans l'environnement et leur utilisation modèles, et d'estimer les limites maximales de résidus qui pourraient se produire à la suite de l'utilisation des pesticides selon les bonnes pratiques agricoles (BPA). Les limites maximales de résidus et les concentrations médianes de résidus en essais contrôlés (MREC) ont été estimées pour les produits d'origine animale. Le Groupe d'évaluation de base de l'OMS a été responsable de l'examen des données toxicologiques et connexes afin d'établir les doses journalières acceptables (DJA) et doses aiguës de référence (ARfD), si nécessaire.
3. La réunion a permis d'évaluer 35 pesticides, y compris six nouveaux composés et huit composés qui ont été réévalués dans le cadre du programme d'examen périodique du Comité du Codex sur les résidus de pesticides (CCPR) relatif à la toxicité ou aux résidus aux deux aspects.
4. La réunion a établi les DJA et les ARfD, a estimé les limites maximales de résidus (LMR) et a recommandé que le CCPR les utilise. De plus, la réunion a estimé des concentrations de MREC et les concentrations de résidus les plus élevées qui serviront de base pour estimer l'apport alimentaire.
5. La réunion a également estimé les expositions alimentaires (à la fois à court terme et à long terme) des pesticides examinés et, sur cette base, a réalisé une évaluation du risque alimentaire par rapport à la DJA pertinente et, si nécessaire, à la ARfD. Les cas dans lesquels la DJA et la ARfD peuvent être dépassées étaient clairement indiqués afin de faciliter le processus de prise de décision par le CCPR.
6. Les pesticides pour lesquels les doses journalières estimées peuvent, sur la base des informations disponibles, dépasser la DJA sont indiqués dans des notes de bas de page. Certains produits de base sont également indiqués dans des notes de bas de page lorsque les informations disponibles montrent que la DAR d'un pesticide pourrait être dépassée si ce produit était consommé. Les attributions et estimations figurent dans les tableaux en annexe.
7. Les tableaux comprennent les numéros de référence Codex des composés et les numéros de la classification Codex (NCC) des produits, afin de faciliter la référence aux LMR Codex pour les résidus de pesticides et à d'autres documents du Codex. Les composés sont énumérés dans l'ordre alphabétique.

¹ Les recommandations de la JMPR pour les limites maximales de résidus correspondent à l'étape 3 de la procédure du Codex.

8. Outre les abréviations reprises ci-dessus, on utilise dans le tableau les qualifications suivantes.

* (après le nom du pesticide)	Nouveau composé
** (après le nom du pesticide)	Composé révisé dans le cadre du programme d'examen périodique du CCPR
* (après la LMR recommandée)	À la limite de quantification ou à proximité
ar	La concentration médiane de résidus ou la concentration de résidus la plus élevée est indiquée «telle que reçue», au taux d'humidité du produit destiné à l'alimentation animale.
dw	La valeur est indiquée sur la base du poids sec du produit destiné à l'alimentation animale.
HR-P	Concentration de résidus la plus élevée dans un produit transformé, en mg/kg, calculée en multipliant la concentration de résidus la plus élevée (HR) dans le produit brut par le facteur de transformation
Po	La recommandation tient compte du traitement après récolte du produit.
PoP (suivant la recommandation pour les produits transformés (catégories D et E dans la classification du Codex))	La recommandation tient compte du traitement après récolte des produits alimentaires primaires.
MREC-P	Concentration médiane de résidus en essais contrôlés (MREC) pour un produit transformé, calculée en appliquant le facteur de concentration ou de réduction lié au processus de transformation à la concentration médiane de résidus en essais contrôlés calculée pour le produit agricole brut.
W (au lieu d'une LMR recommandée)	La recommandation précédente est retirée, ou le retrait de la LMR recommandée ou de la LMR Codex existante ou du projet de LMR est recommandé.

9. Le rapport of the de la réunion de 2023 (y compris l'annexe I) est disponible uniquement en anglais dans les liens suivants:

FAO: <https://www.fao.org/3/cc9755en/cc9755en.pdf>

OMS: <https://www.who.int/publications/i/item/9789240090187>

En cas de problème lors du téléchargement des documents indiqués ci-dessus, veuillez prendre contact avec les secrétariats de la JMPR de la FAO et/ou de l'OMS aux adresses suivantes pour recevoir un exemplaire du rapport en pièce jointe à un courriel:

Secrétariat FAO JMPR

Courriel: Pesticide-Management@fao.org

Secrétariat OMS JMPR

Courriel: JMPR@WHO.INT

DEMANDE D'OBSERVATIONS

10. Les membres du Codex et les organisations observatrices internationales ayant le statut d'observateur auprès du Codex qui souhaitent présenter des observations sur les projets de LMR correspondant à l'étape 3 de la procédure Codex, comme proposés par la réunion de la JMPR en 2023, et également sur les autres recommandations qui concernent les travaux de la cinquante-cinquième session du CCPR des (voir les tableaux qui figurent dans l'annexe), ainsi que des formulaires de notification de réserves, sont priés de le faire par écrit, conformément aux procédures pour l'élaboration des normes Codex et textes apparentés (*Manuel de procédure du Codex Alimentarius*), avant la date limite indiquées sur la page de couverture
11. Des formulaires de notification de réserves doivent être envoyés séparément au Secrétariat du Codex (codex@fao.org) avec une copie au Secrétariat du CCPR (ccpr@agri.gov.cn) en fichier word pour faciliter leur compilation.

12. Les lettres circulaires du Codex sont disponibles sur le site web du Codex² (Lettres circulaires, 2024) et sur le site web de la cinquante-cinquième session du CCPR³.
13. Les membres et observateurs du Codex sont invités à formuler des observations sur les LMR figurant dans les l'annexe **(UNIQUEMENT EN ANGLAIS)** de la présente lettre circulaire, qui est chargé sur le Système d'observations en ligne du Codex (OCS): <https://ocs.codexalimentarius.org/>, conformément aux directives générales ci-dessous, tout en tenant compte des données et des informations fournies dans le rapport de la JMPR (2023).

ORIENTATIONS CONCERNANT LA PRÉSENTATION DES OBSERVATIONS

14. Les observations doivent être présentées dans le système OCS, par l'intermédiaire des Points de contact des membres et observateurs du Codex.
15. Les Points de contact des membres et observateurs du Codex peuvent accéder au système OCS et au document ouvert aux observations en sélectionnant "Entrer" dans la page "Mes révisions", disponible après avoir accédé au système.
16. Des directives supplémentaires, y compris les [questions fréquentes de l'OCS \(FAQs\)](#) ainsi que le Manuel de l'utilisateur et le guide succinct sont disponibles sur le site du Codex: <http://www.fao.org/fao-who-codexalimentarius/resources/ocs/fr/>.
17. Les éventuelles questions sur le système OCS peuvent être adressées à Codex-OCS@fao.org.

² <https://www.fao.org/fao-who-codexalimentarius/committees/committee/related-circular-letters/fr/?committee=CCPR>

³ <http://www.fao.org/fao-who-codexalimentarius/circular-letters/fr>

ANNEXE
ACCEPTABLE DAILY INTAKES, ACUTE REFERENCE DOSES, RECOMMENDED MAXIMUM RESIDUE LEVELS, SUPERVISED TRIALS
MEDIAN RESIDUE VALUES AND OTHER VALUES RECORDED BY THE 2023 JMPR MEETING
(Original language only)

1,4-Dimethylnaphthalene (331)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
1,4-Dimethylnaphthalene (331) ADI: 0–0.3 mg/kg bw ARfD: Unnecessary		Baked potato (unpeeled)	-	-	5.1	-
		Boiled potato (peeled)	-	-	0.17	-
		Boiled potato (unpeeled)	-	-	2.3	-
		Canned potatoes (unpeeled)	-	-	2.2	-
	MO 0105	Edible offal (mammalian)	0.5	-	0.22	-
	PE 0112	Eggs	0.03	-	0.017	-
		Fried potato (unpeeled)	-	-	5.2	-
	MF 0100	Mammalian fats	0.03	-	0.018	-
	MM 0095	Meat (from mammals other than marine mammals)	0.03 (fat)	-	0.014 (muscle) 0.018 (fat)	-
		Microwaved potatoes (unpeeled)	-	-	1.5	-
	ML 0106	Milks	0.03	-	0.02	-
		Peeled potato	-	-	2.1	-
	VR 0589	Potato	15 (Po)	-	8.65	-
		Potato crisps (peeled)	-	-	1.2	-
		Potato crisps (unpeeled)	-	-	1.6	-
		Potato dried pulp	-	-	28	-
	DV 0589	Potato flakes (flour)	-	-	1.3	-
		Potato fries (chips) (peeled)	-	-	0.43	-
		Potato fries (chips) (unpeeled)	-	-	1.6	-
		Potato process waste	-	-	2.5	-
	Potato starch	-	-	3.9	-	
PO 0111	Poultry edible offal	0.2	-	0.12	-	
PF 0111	Poultry fats	0.3	-	0.11	-	
PM 0110	Poultry meat	0.3 (fat)	-	0.043 (muscle) 0.11 (fat)	-	
	Sliced potato	-	-	3.9	-	

Definition of the residue for compliance with the MRL for plant commodities: 1,4-dimethylnaphthalene.

Definition of the residue for dietary risk assessment for plant commodities: Sum of 1,4-dimethylnaphthalene and metabolite 1-hydroxymethyl-4-methylnaphthalene (M21), expressed as 1,4-dimethylnaphthalene.

Definition of the residue for compliance with the MRL for animal commodities, except milk: Sum of 1,4-dimethylnaphthalene and metabolite 4-methyl-1-naphthoic acid (M23), expressed as 1,4-dimethylnaphthalene.

The residue in animal commodities except milk is fat-soluble.

Definition of the residue for compliance with the MRL for milk: Glycine conjugate of 4-methyl-1-naphthoic acid (M02).

The residue definition in milk is not fat-soluble.

Definition of the residue for dietary risk assessment for animal commodities: Sum of 1,4-dimethylnaphthalene, metabolite 4-methyl-1-naphthoic acid (M23), and its glycine conjugate 4-methyl-1-naphthoic acid (M02) expressed as 1,4-dimethylnaphthalene.

Acetamiprid (246)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Acetamiprid (246)	VP 0546	Soya bean (dry)	0.01	-	0.01	-
<p>Definition of the residue for compliance with the MRL and for dietary risk assessment for plant commodities: <i>Acetamiprid</i>. Definition of the residue for compliance with the MRL and for dietary risk assessment for animal commodities: <i>Sum of acetamiprid and desmethyl-acetamiprid, expressed as acetamiprid</i>. The residue is not fat-soluble.</p>						

Boscalid (221)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Boscalid (221) ADI: 0—0.04 mg/kg bw ARfD: Unnecessary (2006)	FI 0355	Pomegranate	2	-	0.041	-
<p>Definition of the residue for compliance with the MRL for plant commodities and for dietary risk assessment for plant and animal commodities: <i>Boscalid</i>. Definition of the residue for dietary risk assessment for animal commodities: <i>Sum of boscalid, 2-chloro-N-(4'-chloro-5-hydroxybiphenyl-2-yl) nicotinamide including its conjugate, expressed as boscalid</i>. The residue is fat-soluble.</p>						

Carbendazim (72)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Carbendazim (72)	-	-	-	-	-	-
<p>The 2023 JMPR was asked by the CCPR to re-evaluate carbendazim under the periodic review programme. However, insufficient toxicological information was submitted to allow a re-evaluation of this substance to confirm or amend the reference values established in 1995 (ADI) and 2005 (ARfD). On this basis, the WHO Core Assessment Group withdraws the current ADI and ARfD values. Recommendations for maximum residue levels for carbendazim are reported under thiophanate-methyl (77)</p>						

Carbofuran (96)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Carbofuran (96) ADI: 0–0.001 mg/kg ARfD: 0.001 mg/kg bw	FC 0004	Oranges, Sweet, Sour (subgroup)	W	0.5	-	-
	AL 1020	Alfalfa fodder	W	10	-	-
	AL 1021	Alfalfa forage (green)	W	10	-	-
	FI 0237	Banana	W	0.01 (*)	-	-
	VC 4199	Cantaloupe	W	0.2	-	-
	MF 0812	Cattle fat	W	0.05 (*)	-	-
	AB 0001	Citrus pulp, Dry ⁽¹⁾	W	2.0	-	-
	SB 0716	Coffee beans	W	1.0	-	-
	SO 0691	Cotton seed	W	0.1	-	-
	VC 0424	Cucumber	W	0.3	-	-
	MO 0105	Edible offal of cattle, goats, horses, pigs & sheep	W	0.05 (*)	-	-
	MF 0814	Goat fat	W	0.05 (*)	-	-
	MF 0816	Horse fat	W	0.05 (*)	-	-
	AF 0645	Maize forage ⁽²⁾	W	0.5	-	-
	GC 0645	Maize ⁽¹⁾	W	0.05 (*)	-	-
	FC 0206	Mandarin ⁽¹⁾	W	0.5	-	-
	MM 0096	Meat of cattle, goats, horses, pigs & sheep	W	0.05 (*)	-	-
	ML 0106	Milks	W	0.05 (*)	-	-
	MF 0818	Pig fat	W	0.05 (*)	-	-
	VR 0589	Potato	W	0.2	-	-
	SO 0495	Rape seed	W	0.05 (*)	-	-
	AS 0649	Rice straw and fodder, dry	W	1.0	-	-
	CM 0649	Rice, husked	W	0.1	-	-
	MF 0822	Sheep fat	W	0.05 (*)	-	-
	GC 0651	Sorghum	W	0.1 (*)	-	-
	AF 0651	Sorghum forage (green)	W	2	-	-
	AS 0651	Sorghum straw and fodder, dry	W	0.5	-	-
	HS 0193	Spices, roots and rhizomes	W	0.1	-	-
	VC 0431	Squash, summer	W	0.3	-	-
	AV 0596	Sugar beet leaves or tops ⁽¹⁾	W	0.07	-	-
	VR 0596	Sugar beet ⁽¹⁾	W	0.2	-	-
	GS 0659	Sugar cane	W	0.1 (*)	-	-
SO 0702	Sunflower seed	W	0.1 (*)	-	-	
VO 0447	Sweet corn (corn-on-the-cob)	W	0.1	-	-	

⁽¹⁾Arising from the use of carbofuran

Carbosulfan (145)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR _{chronic} or STMR-P _{chronic} (mg/kg)	STMR _{acute} or STMR-P _{acute} (mg/kg)	HR _(acute) or HR-P _(acute) (mg/kg)
			New	Previous			
Carbosulfan (145) ADI: 0–0.01 mg/kg bw ARfD: 0.02 mg/kg bw	AB 0001	Citrus pulp, Dry	W	0.1	-	-	-
	SO 0691	Cotton seed	W	0.03 (*)	0.11	0.21	-
	MO 0105	Edible offal (mammalian)	W	0.05 (*)	-	-	-
	VO 0440	Eggplant	0.15		0.36	0.71	0.91
	PE 0112	Eggs	W	0.05 (*)	-	-	-
	GC 0645	Maize	W	0.05 (*)	-	-	-
	AF 0645	Maize forage	W	0.05 (*)	-	-	-
	FC 0206	Mandarin	W	0.1	-	-	-
	FI 0345	Mango	0.1	-	0.265	0.52	1.3
	MM 0095	Meat (from mammals other than marine mammals)	W	0.05 (*) fat	-	-	-
	ML 0106	Milks	W	0.03 (*)	-	-	-
	FC 0004	Oranges, sweet, sour (subgroup)	W	0.1	-	-	-
	VR 0589	Potato	W	0.05	-	-	-
	PM 0110	Poultry meat	W	0.05 (*)	-	-	-
	PO 0111	Poultry, edible offal of	W	0.05 (*)	-	-	-
	GC 0649	Rice	W	0.05 (*)	-	-	-
	AS 0649	Rice straw and fodder, dry	W	0.05 (*)	-	-	-
	HS 0191	Spices, fruits and Berries	W	0.07	-	-	-
	HS 0193	Spices, roots and rhizomes	W	0.1	-	-	-
VR 0596	Sugar beet	W	0.3	-	-	-	
AV 0596	Sugar beet leaves or tops	W	0.05 (*)	-	-	-	

STMR(-P)_{chronic} Expressed as toxic equivalent residues (carbosulfan +10×carbofuran)

STMR(-P)_{acute} Expressed as toxic equivalent residues (carbosulfan + 20×carbofuran)

HR_(acute) Expressed as toxic equivalent residues (carbosulfan + 20×carbofuran)

Definition of the residue for compliance with the MRL for plant commodities: Carbosulfan plus carbofuran (expressed as carbosulfan).

Definition of the residue for dietary risk assessment for plant commodities: Carbosulfan plus 10×(sum of carbofuran, 3-hydroxy carbofuran (free and conjugated), 3-hydroxy-7-phenol and 3-keto-7-phenol), expressed as carbosulfan for long-term dietary exposure and Carbosulfan plus 20×(sum of carbofuran, 3-hydroxy carbofuran (free and conjugated), 3-hydroxy-7-phenol and 3-keto-7-phenol), expressed as carbosulfan for acute dietary exposure.

Definition of the residue for compliance with the MRL and for dietary risk assessment for animal commodities: Not established.

Clothianidin (238)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Clothianidin (238)	AM 0660	Almond hulls	0.1 (dw) T	-	0.02 (as)	-
	VS 0624	Celery	W	0.04, T	-	-
	HS 0780	Cumin seed	1	-	0.25	-
	VO 0050	Fruiting vegetables other than cucurbits	W	0.05	-	-
	VO 0050	Fruiting vegetables other than cucurbits except goji berry	0.05, T	-	0.02, T	0.03, T
	VO 2704	Goji berry	0.06, T	-	0.01, T	0.034, T
	DV 2704	Goji berry, dried	0.3, T	-	0.051, T	0.18, T
	TN 0085	Group of tree nuts	0.01*, T	-	0.01, T	0.01, T
	VA 0385	Onion, bulb	0.01*, T	-	0.01, T	0.01, T
	TN 0672	Pecan	W	0.01*	-	-
	VS 2080	Subgroup of stems and petioles	0.04 T	-	0.01 T	0.02 T

T: based on thiamethoxam use only

C: based on clothianidin use only

(as): as received

(dw): dry weight

Definition of the residue for compliance with the MRL and dietary risk assessment for plant and animal commodities:

Clothianidin.

The residue is not fat-soluble.

Cyantraniliprole (263)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Cyantraniliprole (263) ADI: 0–0.03 mg/kg bw ARfD: Unnecessary	FI 0326	Avocado	0.4	-	0.03	-
	VD 0071	Bean (dry)	W	0.3		
	VD 2065	Beans, dry, subgroup of	0.6	-	0.032	-
	FB 2005	Cane berries, subgroup of	4	-	1	-
	PE 0112	Eggs	0.3	0.15	0.048	-
	AB 0269	Grape pomace, dried	15	-	3.4	-
	DF 0269	Grape, dried (=Currants, raisins, and sultanas)	3	-	0.73	-
	FB 0269	Grapes	2	-	0.56	-
	FT 0305	Olives	1	-	0.33	-
	SO 0305	Olives for oil production	1	-	0.33	-
	VD 2066	Peas, dry, subgroup of	0.6		0.032	-
	VD 4521	Soya bean (dry)	W	0.4	-	-
	DT 1114	Tea, green, black (black, fermented, and dried)	50	-	4.05	-
FB 1236	Wine-grapes	W	1	-	-	

Definition of the residue for compliance with the MRL for plant and animal commodities: Cyantraniliprole.

Definition of residue for estimation of dietary intake for unprocessed plant commodities: Cyantraniliprole.

Definition of residue for estimation of dietary intake for processed plant commodities: Sum of cyantraniliprole and IN-J9Z38, expressed as cyantraniliprole.

Definition of residue for estimation of dietary intake for animal commodities: Sum of cyantraniliprole, 2-[3-Bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-3,4-dihydro-3,8-dimethyl-4-oxo-6-quinazolinecarbonitrile [IN-J9Z38], 2-[3-Bromo-1-(3-chloro-2-pyridinyl)-1H-pyrazol-5-yl]-1,4-dihydro-8-methyl-4-oxo-6-quinazolinecarbonitrile [IN-MLA84], 3-Bromo-1-(3-chloro-2-pyridinyl)-N-[4-cyano-2-(hydroxymethyl)-6-[(methylamino)carbonyl]phenyl]-1H-pyrazole-5-carboxamide [IN- N7B69] and 3-Bromo-1-(3-chloro-2-pyridinyl)-N-[4-cyano-2-[[[(hydroxymethyl)amino]carbonyl]-6-methylphenyl]-1H-pyrazole-5-carboxamide [IN-MYX98], expressed a cyantraniliprole.

The residue is not fat-soluble.

Note: metabolites IN-K5A78, IN-F6L99, and IN-N5M09 are assessed using Cramer Class III threshold of 1.5 µg/kg per day.

Cyflumetofen (273)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Cyflumetofen (273)	SB 0716	Coffee bean	0.08	-	0.043	-
		Coffee beans instant powder	-	-	0.010	-
	SM 0716	Coffee beans roasted		-	0.027	-
	VC 0424	Cucumber	0.5	-	0.085	-
		Hops beer	-	-	0.049	-
		Hops extract	-	-	13.9	-
	MU 1100	Hops, dried	15	-	3.6	-
		Nectarine canned	-	-	0.012	-
		Nectarine jam	-	-	0.028	-
	DF 0245	Nectarine, dried	2	-	1.1	-
		Peach canned	-	-	0.012	-
		Peach jam	-	-	0.028	-
	DF 0247	Peach, dried	2	-	1.1	-
	FS 0013	Subgroup of cherries	0.4	-	0.106	-
FS 2001	Subgroup of peaches	0.3	-	0.125	-	

Definition of the residue for plant commodities (for compliance with the MRL): *Cyflumetofen*.

Definition of the residue for plant commodities (for estimation of dietary intake): *Sum of cyflumetofen and 2-trifluoromethylbenzoic acid (metabolite B-1), expressed as cyflumetofen*.

Definition of the residue for animal commodities (for compliance with the MRL and estimation of dietary intake): *Sum of cyflumetofen and 2-trifluoromethylbenzoic acid (metabolite B-1), expressed as cyflumetofen*.

Residue is not fat-soluble.

Deltamethrin (135)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Deltamethrin (135)	FI 0350	Papaya	0.2	-	0.01	0.01

Definition of the residue for compliance with the MRL and for dietary risk assessment for plant and animal commodities: *Sum of the deltamethrin and its trans- and α -R- isomers*.

The residue is fat-soluble.

Difenoconazole (224)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Difenoconazole (224)	FB 2005	Cane berries	3	-	0.69	1.7
	CF 3516	Maize aspirated grain fractions ^a	-	-	0.5	-
	CF 3517	Maize gluten ^a	0.05	-	0.031	-
	OC 0645	Maize oil, crude	0.02	-	0.012	-
	AS 3569	Maize, bran ^a	-	-	0.032	-
	CF 1255	Maize, flour	0.015	-	0.008	-
	AS 0645	Maize, hay and/or straw ^a	15 (dw)	-	2.4 (as received)	8.5 (as received)
	VL 0485	Mustard greens	8	-	1.6	6.1
	FS 0014	Prunes	4	-	0.94	2.6
	VR 0494	Radish	0.7	-	0.17	0.31
	VL 0494	Radish leaves	8	-	1.6	6.1
	FS 0012	Stone fruits	1.5	-	0.365	1.02
	GC 2091	Subgroup of maize Cereals	0.015	-	0.01	-
	VR 0508	Sweet potato	4	-	1.2	1.9

(a): Value not relevant for IEDI assessment calculations.

The definition of the residue for compliance with MRL and for dietary intake for plant commodities is parent *difenoconazole*, while for animal commodities it is defined as sum of difenoconazole and 1-[2-chloro-4-(4-chloro-phenoxy)-phenyl]-2-(1,2,4-triazol)-1-yl-ethanol (CGA205375), expressed as difenoconazole.

The residue is fat-soluble.

Diflubenzuron (130)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Diflubenzuron (130)	DT 1114	Black, Green tea infusions	-	-	0.038	-
		Tea, Black, Green, dried and fermented (subgroup)	40	-	9.4	-

Definition of the residue for compliance with the MRL for plant and animal commodities: *Diflubenzuron*

Definition of the residue for dietary risk assessment for plant and animal commodities: *Diflubenzuron*

The residue is fat-soluble.

Dinotefuran (255)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Dinotefuran (255)	VO 2704	Goji berry	0.6	-	0.12	0.34
	DV 2704	Goji berry, dried	2	-	0.26	1.1
	VO 0050	Group of fruiting vegetables other than cucurbits (except sweet corn and mushrooms)	W	0.5	-	-
	VO 0050	Group of fruiting vegetables other than cucurbits (except goji berry)	0.5	-	0.15 ^{A)}	0.55 ^{A)}

A) Residue recommendations were made by the 2012 JMPR.

Definition of the residue for compliance with the MRL for plant commodities: *Dinotefuran*.

Definition of the residue for dietary risk assessment for plant commodities: Sum of *dinotefuran*, *UF*, and *DN*, expressed as *dinotefuran*.

Definition of the residue for compliance with the MRL and for dietary risk assessment for animal commodities: Sum of *dinotefuran* and *UF*, expressed as *dinotefuran*.

The residue is not fat-soluble.

Emamectin (247)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Emamectin (247) (addendum) ADI: 0–0.0005 mg/kg bw ARfD: 0.02 mg/kg bw	-	-	-	-	-	-

Emamectin was previously evaluated at JMPR (2011) when an ADI of 0–0.0005 mg/kg bw and ARfD of 0.03 mg/kg bw were established for emamectin benzoate. Emamectin benzoate was evaluated by JECFA (2013). The committee confirmed the HBGVs established by JMPR 2011. At JMPR 2014 Meeting the ARfD of 0.03 mg/kg bw was withdrawn and an ARfD of 0.02 mg/kg bw established. Emamectin was evaluated by the present JMPR, due to a request for additional information on analytical methodology, storage stability and MRLs. The results of the newly submitted studies did not affect the previously established ADI or ARfD for emamectin benzoate.

Florypicoxamid (332)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Florypicoxamid (332) ADI: 0–0.1 mg/kg bw ARfD: Unnecessary	FB 0269	Grapes	3	-	0.375	-
	FB 0275	Strawberry	1.5	-	0.26	-
	FI 0327	Banana	0.4	-	0.021	-
	FI 0345	Mango	0.5	-	0.021	-
	VC 2039	Subgroup of fruiting vegetables, cucurbits - cucumbers and summer squashes	0.3	-	0.063	-
	VC 2040	Subgroup of fruiting vegetables, cucurbits – melons, pumpkins, and winter squashes	0.4	-	0.0795	-
	VO 2045	Subgroup of tomatoes	0.9	-	0.12	-
	VO 0444	Peppers, chili	0.8	-	0.15	-
	VO 0445	Peppers, sweet	0.8	-	0.15	-
	HS 0444	Peppers, chili, dried	8	-	1.5	-
	VO 2046	Subgroup of eggplants	0.9	-	0.12	-
	VD 0533	Lentil (dry)	0.02	-	0	-
	VR 0596	Sugar beet	0.05	-	0.021	-
	GC 0654	Wheat	0.03	-	0.021	-
	SO 0495	Rape seed	0.15	-	0.021	-
	DF 0269	Grape, dried	7	-	0.8	-
	JF 0269	Grape, juice	-	-	0.1	-
		Grape, jelly	-	-	0.023	-
		Grape, wine (red)	-	-	0.02	-
		Grape, wine (white)	-	-	0.01	-
	DV 0448	Tomato, dried	6	-	0.72	-
	DM 0448	Tomato, paste/ puree	-	-	0.076	-
	JF 0448	Tomato, juice	-	-	0.01	-
		Tomato, canned fruit	-	-	<0.004	-
	DM 3523	Refined sugar	-	-	<0.004	-
	CM 0654	Wheat bran (unprocessed)	0.07	-	0.046	-
		Wheat white flour (550)	-	-	<0.019	-
		Wheat wholemeal flour	-	-	0.025	-
		Wheat wholemeal bread	-	-	0.021	-
	CF 1210	Wheat germ	-	-	<0.019	-
		Wheat starch	-	-	<0.019	-
	CF 3522	Wheat gluten	0.04	-	0.027	-
MO 0105	Edible offal (Mammalian)	0.09	-	0.023 (liver) 0.022 (kidney)	-	
PE 0269	Eggs	0.02	-	0	-	
MF 0100	Mammalian fats (except milk fats)	0.15	-	0.043	-	
MM 0095	Meat (from mammals other than marine mammals)	0.15	-	0.024 (muscle) 0.043 (fat)	-	
ML 0095	Milks	0.03	-	0.013	-	
PF 0111	Poultry fats	0.02	-	0	-	
PM 0111	Poultry meat	0.02	-	0	-	
PO 0111	Poultry, edible offal of	0.02	-	0	-	
AS 0654	Wheat, hay and/or straw	2 (dw)	-	0.086 (as received)	-	

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
<p><u>Definition of the residue for compliance with the MRL and dietary exposure for plant commodities:</u> <i>Sum of florylpicoxamid and X12485649 expressed as florylpicoxamid.</i></p> <p><u>Definition of the residue definition for compliance with the MRL and dietary exposure for animal commodities:</u> <i>Sum of florylpicoxamid and X12485649 expressed as florylpicoxamid.</i></p> <p>The residue is fat-soluble.</p>						

Fluazinam (333)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Fluazinam (333)	-	-	-	-	-	-
<p><u>Definition of the residue for plant commodities for enforcement of MRLs:</u> <i>Fluazinam</i></p> <p><u>Definition of the residue for plants for dietary risk assessment:</u> <i>JMPR was unable to conclude on a residue definition for risk assessment.</i></p>						

Fluopyram (243)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg	
			New	Previous			
Fluopyram (243)	GC 0640	Barley	0.4	0.2	0.041	-	
	GC 0641	Buckwheat	0.4		0.041	-	
	MO 0105	Edible offal, (mammalian)	8	8	3.8	7.4	
	PE 0112	Eggs	2	2	0.46	1.5	
	MF 0100	Mammalian fats (except milk fats)	1.5	1.5	0.67	1.5	
	MM 0095	Meat (from mammals other than marine mammals)	1.5	1.5	Muscle: 0.51 Fat: 0.67	Muscle: 1.0 Fat: 1.5	
	ML 0106	Milks	0.8	0.8	0.48	-	
	GC 0647	Oats	0.4	0.2	0.041	-	
	PO 111	Poultry, edible offal of	4	5	0.88	3.1	
	PF 0111	Poultry fats	1	1	0.28	0.90	
	PM 0110	Poultry meat	1.5	1.5	Muscle: 0.19 Fat: 0.28	Muscle: 0.97 Fat: 0.90	
	GC 0650	Rye	0.2	0.9	0.035	-	
	GC 0651	Sorghum	0.6		0.18	-	
	GC 0653	Triticale	0.2	0.9	0.035	-	
	GC 0654	Wheat	0.2	0.9	0.035	-	
	CF 0654	Wheat bran	0.6	-	0.081	-	
	CF 1211	Wheat flour	-	-	0.0036	-	
	CF 1210	Wheat germ	0.5	-	0.072	-	
		(animal feed commodities)				(median)	(highest)
		Aspirated grain fraction of wheat	-	-	2.1		
	AS 0640	Barley, hay and/or straw	6 (dw)	-	Straw: 0.67 Hay: 1.2 (ar)	Straw: 1.9 Hay: 4.1 (ar)	
	AS 0640	Barley straw and fodder, dry	W	2	-	-	
	AS 3559	Oat, hay and/or straw	6 (dw)	-	Straw: 0.67 Hay: 1.2 (ar)	Straw: 1.9 Hay: 4.1 (ar)	
	AS 0647	Oat straw and fodder, dry	W	2	-	-	
	AS 0650	Rye, forage	-	-	0.24 (ar)	1.3 (ar)	
	AS 3560	Rye, hay and/or straw	6 (dw)		Straw: 0.67 Hay: 1.2 (ar)	Straw: 1.9 Hay: 4.1 (ar)	
	AS 0650	Rye straw and fodder, dry	W	23	-	-	
	AS 0651	Sorghum, forage (green)	-	-	0.43 (ar)	3.2 (ar)	
	AS 3561	Sorghum, stover	3 (dw)	-	0.45 (ar)	1.5 (ar)	
	AS 0653	Triticale, forage			0.24 (ar)	1.3 (ar)	
	AS 0653	Triticale, hay and/or straw	6 (dw)	-	Straw: 0.67 Hay: 1.2 (ar)	Straw: 1.9 Hay: 4.1 (ar)	
	AS 0653	Triticale straw and fodder, dry	W	23	-	-	
	AS 3552	Wheat, forage	-	-	0.24 (ar)	1.3 (ar)	
AS 0654	Wheat, hay and/or straw	6 (dw)	-	Straw: 0.67 Hay: 1.2 (ar)	Straw: 1.9 Hay: 4.1 (ar)		
AS 0654	Wheat straw and fodder, dry	W	23	-	-		

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
(ar): as received (dw): dry weight basis <u>Definition of the residue for compliance with MRL and for estimation of dietary risk assessment for plant commodities:</u> <i>Fluopyram.</i> <u>Definition of the residue for compliance with the MRL for animal commodities:</u> <i>Sum of fluopyram and 2-(trifluoromethyl)benzamide, expressed as fluopyram.</i> <u>Definition of the residue for dietary risk assessment for animal commodities:</u> <i>Sum of fluopyram, 2-(trifluoromethyl)benzamide and the combined residues of N-(E)-2-[3-chloro-5-(trifluoromethyl)pyridine-2-yl]ethenyl)-2-trifluoromethyl)benzamide and N-(Z)-2-[3-chloro-5-(trifluoromethyl)pyridine-2-yl]ethenyl)-2-trifluoromethyl)benzamide, all expressed as fluopyram.</i> The residue is not fat-soluble.						

Imazapyr (267)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Imazapyr (267)	GC 0649	Rice	0.06	-	0.01	-
	CM 1206	Rice bran, unprocessed	0.2	-	0.015	-
	AS 0649	Rice, hay and/or straw	0.015	-	-	-
	CM 0649	Rice, husked	0.07	-	0.01	-
	CM 1205	Rice, polished	0.05	-	0.01	-
	GC 0654	Wheat	0.6	0.05 *	0.079	-
	CM 0654	Wheat bran, unprocessed	1	-	0.116	-
	CF 1210	Wheat germ	1	-	0.11	-
	AS 0654	Wheat straw and fodder, dry	W	0.05 *	-	-
AS 0654	Wheat, hay and/or straw	1 (dw)	-	-	-	
(as): as received (dw): dry weight <u>Definition of the residue for compliance with the MRL and for dietary risk assessment for plant and animal commodities:</u> <i>Imazapyr.</i> The residue is not fat-soluble.						

Iprodione (111)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Iprodione (111) ADI: 0–0.06 mg/kg bw ARfD: 0.6 mg/kg bw	TN 0660	Almond	0.3	0.2	0.17	0.0395
	AM 0660	Almond hulls	50 (dw)	2	n.a.	14.85 (ar)
	FP 0226	Apple (in 1994 10 Po was withdrawn)	-	-	-	-
	GC 0640	Barley	W	2	-	-
	AL 0061	Bean, hay and/or straw (<i>Phaseolus</i> spp)	20 (dw)	100	highest: 7.72 (ar)	median: 3.7 (ar)
	VD 0071	Beans (<i>Phaseolus</i> spp) - dry	W	0.1	-	-
	VP 0061	Beans with pods (<i>Phaseolus</i> spp) - immature pods and succulent seeds	1.5	-	0.81	0.31
	FB 0264	Blackberries	W	30	-	-
	VB 0400	Broccoli [a]	40	25	24	9.4
	FB 2005	Cane berries, subgroup of	50	-	22.6	13.5
	VR 0577	Carrot	W	10 (Po)	-	-
	FS 0013	Cherries, subgroup of	0.3	10	0.14	0.042
	VP 2845	Common bean (pods and/or immature seeds)	W	2	-	-
	VC 0424	Cucumber	W	2	-	-
	FB 0269	Grapes	W	10	-	-
	FI 0341	Kiwifruit	W	5	-	-
	VL 0482	Lettuce, head	W	10	-	-
	VL 0483	Lettuce, leaf	W	25	-	-
	VA 0385	Onion, bulb	0.15	0.2	0.11	0.05
	FS 2001	Peaches (including Nectarines and Apricots), Subgroup of	0.05*	-	0.05	0.05
	FS 0247	Peaches	W	10	-	-
	FP 0009	Pome fruits (group)	W	5 (Po)	-	-
	VR 0589	Potato	0.05*	-	0.05	0.05
	VR 0589	Potato culls	0.15	-	n.a.	0.10
	DV 0589	Potato flakes/granules	0.05*	-	-	0.0145
	SO 0495	Rape seed	W	0.5	-	-
	FB 0272	Raspberries, red, black	W	30	-	-
	GM 0649	Rice, husked	W	10	-	-
	HS 0193	Spices, roots and rhizomes	W	0.1	-	-
	HS 0190	Spices, seeds	W	0.05 (*)	-	-
	FB 0275	Strawberry	W	10	-	-
	VR 0596	Sugar beet	W	0.1 (*)	-	-
	SO 2091	Sunflower seed	W	0.5	-	-
VO 0448	Tomato	W	5	-	-	
VL 2832	Witloof chicory (sprouts)	W	1	-	-	
	Potato chips	-	-	n.a.	0.023	
Residue level for feed						
AL 1030	Bean, forage (<i>Phaseolus</i> spp)	n.a.	-	12.2 (ar)	7.4 (ar)	
VR 0589	Potato culls	0.15	-	n.a.	0.10	

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
<p>(ar):as received (dw): dry weight (n.a.): not applicable [a] On the basis of the information provided to the JMPR it was concluded that the estimated acute dietary exposure to residues of iprodione for the consumption of broccoli may present a public health concern. <u>Definition of the residue for compliance with the MRL and for dietary risk assessment for plant commodities: Iprodione.</u> <u>Definition of the residue for compliance with the MRL for animal commodities: Not concluded.</u> <u>Definition of the residue for dietary risk assessment for animal commodities: Iprodione + 3-(3,5-dichlorophenyl)-2,4-dioximidazolidine-1-carboxamide (RP302490) + N-(3,5-dichloro-4-hydroxyphenyl)-2-carbamoylacetamide (RP36114).</u></p>						

Isocycloseram (334)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Isocycloseram (334) ADI: 0–0.02 mg/kg bw ARfD: 0.5 mg/kg bw general population 0.08 mg/kg bw women of child-bearing age	AB 1230	Apple pomace, wet	1	-	0.25	-
	VB 0400	Broccoli	0.7	-	0.211	0.46
	VB 0402	Brussels sprouts	2	-	0.072	0.81
	VB 0041	Cabbages, head	4	-	0.0385	1.2
	VB 0404	Cauliflower	0.5	-	0.051	0.32
	OR 0001	Citrus Oil	80	-	13	-
	SB 0716	Coffee bean	0.04	-	0.01	-
	SO 0691	Cotton seed	0.5	-	0.11	-
	VC 0424	Cucumber	0.1	-	0.024	0.063
	MO 0105	Edible offal (Mammalian)	0.3	-	0.013	0.16
	VO 0440	Eggplant	0.3	-	0.07	0.18
	FP 0009	Group of pome fruits	0.4	-	0.105	0.27
	GC 0645	Maize	0.01(*)	-	0.01	-
	AL 3558	Maize, stover	1.5	-	0.46	1
	MF 0100	Mammalian fats (except milk fats)	0.4	-	0.024	0.37
	MM 0095	Meat (from mammals other than marine mammals)	0.02	-	Muscle (0.0022) Fat (0.024)	Muscle (0.011) Fat (0.362)
	VC 0046	Melons, except watermelon	0.15	-	0.024	0.078
	ML 0106	Milks	0.05	-	0.0021	0.043
	VA 0385	Onion, bulb	0.01(*)	-	0.01	0.01
	AB 0004	Oranges, dried pulp	3	-	0.41	-
	VO 0444	Peppers, chili	0.6	-	0.15	0.4
	HS 0444	Peppers, chili, dried	4.2	-	1.1	2.8
	VO 0445	Peppers, sweet	0.3	-	0.0935	0.18
	VR 0589	Potato	0.01(*)	-	0	0
	DF 0014	Prune, dried	1.5	-	0.22	-
	VD 0541	Soya bean (dry)	0.15	-	0.0225	-
	AL 3533	Soya bean hulls	1	-	0.14	-
	AL 0541	Soya bean, hay and/or straw	20	-	5.3	14
	VC 0431	Squash, summer	0.09	-	0.012	0.063
	FS 0013	Subgroup of cherries	1	-	0.344	0.62
	FC 0002	Subgroup of lemons and limes (including citron)	0.5	-	0.052	0.25
	FC 0003	Subgroup of Mandarins (including mandarin-like hybrids)	0.4	-	0.088	0.25
FC 0004	Subgroup of oranges, sweet, sour (including orange-like hybrids)	0.4	-	0.064	0.22	
FS 2001	Subgroup of peaches (including nectarine and apricots)	0.3	-	0.0985	0.23	
FS 0014	Subgroup of plums (including fresh Prunes)	0.4	-	0.071	0.32	

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
	FC 0005	Subgroup of pummelo and grapefruits (including shaddock-like hybrids, among other grapefruit)	0.3	-	0.0645	0.15
	VO 0448	Tomato	0.5	-	0.1	0.43
	DV 0448	Tomato, dried	2	-	0.32	1.4
	DM 3525	Tomato, pomace	8	-	1.6	-
<p><u>Definition of the residue for compliance with the MRL for plant commodities and for dietary risk assessment for plant commodities:</u> <i>Isocycloseram</i>.</p> <p><u>Definition of the residue for compliance with the MRL for animal commodities:</u> <i>Isocycloseram</i>.</p> <p><u>Definition of the residue for dietary risk assessment for animal commodities:</u> Sum of <i>isocycloseram</i> and metabolites N-[2-amino-1-(hydroxymethyl)-2-oxo-ethyl]-4-[5-(3,5-dichloro-4-fluoro-phenyl)-5-(trifluoromethyl)-4H-isoxazol-3-yl]-2-methylbenzamide and 4-[5-(3,5-dichloro-4-fluoro-phenyl)-5-(trifluoromethyl)-4H-isoxazol-3-yl]-2-methyl-N-(3-oxoisoxazolidin-4-yl)benzamide (expressed as <i>isocycloseram</i>).</p> <p>The residue is fat-soluble.</p>						

Isoflucypram (330)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Isoflucypram (330) ADI: 0–0.06 mg/kg bw ARfD: Unnecessary	GC 0640	Barley	0.1	-	0.020	
	GC 0653	Triticale	0.05	-	0.020	
	GC 0654	Wheat	0.05	-	0.020	
	AS 0640	Barley, hay and/or straw	5	-	Median: 0.70 (dw)	
	AS 0653	Triticale, hay and/or straw	5	-	Median: 1.1 (dw)	
	AS 0654	Wheat, hay and/or straw	5	-	Median: 1.1 (dw)	
	ML 0106	Milks	0.005*	-	0.012	
	FM 0183	Milk fats	0.005*	-	-	
	MM 0095	Meat (from mammals other than marine mammals)	0.01*	-	Muscle: 0.034 Fat: 0.034	
	MF 0100	Mammalian fats (except milk fats)	0.01*	-	0.034	
	MO 0105	Edible offal (mammalian)	0.01*	-	0.034	
	PE 0112	Eggs	0.01*	-	0.012	
	PM 0110	Poultry meat	0.01*	-	Muscle: 0.012 Fat: 0.0012	
	PF 0111	Poultry fats	0.01*	-	0.012	
	PO 0111	Poultry, edible offal of	0.01*	-	0.012	
	-	Barley brewer's grain	-	-	Median: 0.028	
	-	Barley beer	-	-	0.0076	
	-	Pearl barley	-	-	0.0076	
	CF 3511	Barley flour	0.02	-	0.035	
	CM 3510	Barley bran, unprocessed	0.05	-	Median: 0.064	
CF 1210	Wheat germ	0.015	-	-		
-	Wheat bran, unprocessed	0.015	-	-		

Definition of the residue for compliance with the MRL for plant and animal commodities: *Isoflucypram*.

Definition of the residue for dietary risk assessment for plant commodities: *Sum of isoflucypram and isoflucypram-propanol (free and conjugated), expressed as isoflucypram*.

Definition of the residue for dietary risk assessment for animal commodities: *Sum of isoflucypram, isoflucypram-propanol (free and conjugated), isoflucypram-carboxylic acid, isoflucypram-desmethyl-carboxylic acid, and isoflucypram-2-propanol (free and conjugated), expressed as isoflucypram*.

The residue is fat-soluble.

Isotianil (335)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Isotianil (335) ADI: 0–0.05 mg/kg bw ARfD: Unnecessary	FI 0327	Banana	0.01 (*)	-	0	-
	FC 0002	Subgroup of lemons and limes (including citron)	0.5	-	0.012	-
	FC 0003	Subgroup of Mandarins (including mandarin-like hybrids)	0.4	-	0.012	-
	FC 0004	Subgroup of oranges, sweet, sour (including orange-like hybrids)	0.4	-	0.012	-
	FC 0005	Subgroup of Pummelo and grapefruits (including shaddock-like hybrids, among other grapefruit)	0.2	-	0.00715	-
	PO 0111	Poultry, Edible offal of	0.02 (*)	-	0	-
	PF 0111	Poultry fats	0.02 (*)	-	0	-
	PM 0110	Poultry meat	0.02 (*)	-	0	-
	MO 0105	Edible offal (Mammalian)	0.02 (*)	-	0	-
	MF 0100	Mammalian fats (except milk fats)	0.02 (*)	-	0	-
	MM 0095	Meat (from mammals other than marine mammals)	0.02 (*)	-	0	-
	ML 0106	Milks	0.02 (*)	-	0	-
	OR 0001	Citrus oil, edible	40	-	7.86	-
		Orange juice		-	0.0204	-
		Orange oil		-	7.86	-
	Orange peel processed		-	0.216	-	
	Marmalade		-	0.0204	-	

Mepiquat-chloride (336)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Mepiquat-chloride (336) ADI: 0–0.3 mg/kg bw ARfD: 0.6 mg/kg bw	SO 0691	Cotton seed	4	-	1.3	-
	OC 0691	Cotton seed oil, crude	-	-	0.056	-
	OR 0691	Cotton seed oil, edible	-	-	0.052	-
	MO 0105	Edible offal (mammalian)	0.04	-	Liver: 0.047 Kidney: 0.027	Liver: 0.059 Kidney: 0.036
	PE 0112	Eggs	0.008(*)	-	0	0
	FB 0269	Grapes	4	-	0.705	2.6
	DF 0269	Grape, dried (=currants, raisins and sultanas)	20	-	2.7	10
	JF 0269	Grape juice		-	0.78	-
	MF 0100	Mammalian fat (except milk fats)	0.01	-	0.0092	0.0092
	MM 0095	Meat (from mammals other than marine mammals)	0.01	-	Muscle: 0.0092 Fat: 0.0092	Muscle: 0.0092 Fat: 0.0092
	ML 0106	Milk	0.008(*)	-	0.018	-
	PO 0111	Poultry, edible offal of	0.008(*)	-	0	0
	PF 0111	Poultry fats	0.008(*)	-	0	0
	PM 0110	Poultry meat	0.008(*)	-	0	0
		(animal feed commodities)	-	-	Median	-
		Cotton delinted seed	1.6	-		-
	AM 3588	Cotton seed hulls		-	0.36	-
	AM 3589	Cotton seed meal	8	-	2.5	-
AB 0269	Grape pomace, dried	15	-	1.8	-	
	Grape pomace, wet		-	0.78	-	

All residue estimates above are expressed as mepiquat cation.

Definition of the residue for compliance with the MRL for plant and animal commodities: *Mepiquat cation*

Definition of the residue for dietary exposure assessment for plant commodities: *Mepiquat cation*

Definition of the residue for dietary exposure assessment for animal commodities: *Mepiquat cation and 4-hydroxy-1,1-dimethylpiperidinium cation (4-hydroxymepiquat cation, free and conjugated), expressed as mepiquat cation.*

The residue is not fat-soluble.

Oxathiapiprolin (291)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Oxathiapiprolin (291)	AM 0660	Almond hulls	0.05	-	0.02	-
	FI 0326	Avocado	0.09	-	0.0575	-
	TN 0085	Group of tree nuts	0.01 (*)	-	0.01	0.01
	MU 1100	Hops, dried	5	-	1.55	
	FB 2006	Subgroup of bush berries	0.5	-	0.056	-

(as): as received

(dw): dry weight

Definition of the residue for compliance with the MRL: Oxathiapiprolin.

Definition of the residue for dietary risk assessment for plant and animal commodities: Sum of oxathiapiprolin, 5-(trifluoromethyl)-1H-pyrazole-3-carboxylic acid and 1-β-D-glucoopyranosyl-3-(trifluoromethyl)-H-pyrazole-5-carboxylic acid, expressed as parent equivalents.

The residue is not fat-soluble.

Permethrin (120)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Permethrin (120)	-	-	-	-	-	-

Definition of the residue for plant and animal commodities (for compliance with the MRL): Permethrin (sum of *cis* and *trans* isomers).

Definition of the residue for plants and animals for dietary risk assessment: JMPR was unable to conclude on a residue definition for risk assessment.

The Meeting was unable to conclude on a residue definition for risk assessment.

No MRLs are recommended, nor are levels estimated for use in long-term and acute dietary exposure assessments as the Meeting could not reach a conclusion on the residue definition for risk assessment for plants and animals, and due to late submission of the relevant key data.

Piperonyl butoxide (062)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Piperonyl butoxide (062)	-	-	-	-	-	-

Due to insufficient trials or limited data obtained from supervised trials, JMPR did not make any recommendations for establishing MRLs and for IEDI assessments.

Definition of the residue for compliance with MRLs and for dietary risk assessment for plant and animal commodities: Piperonyl butoxide.

The residue is fat-soluble.

Prochloraz (142)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Prochloraz (142) ADI: 0–0.02 mg/kg bw ARfD: 0.2 mg/kg bw	-	-	-	-	-	-

JMPR did not finalize the review for residues and will continue the periodic review in 2024.

Propiconazole (160)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Propiconazole (160)	FI 0326	Avocado	0.02	-	0.085	0.12
	MO 0105	Edible offal (mammalian)	0.2	0.5	2.4	4.5 (liver) 5.0 (kidney)
	PE 0112	Eggs			0.08	0.10
	MF 0100	Mammalian fats (except milk fats)	0.05	0.01 (*)	0.11	0.23
	MM 0095	Meat (from mammals other than marine mammals)	-	-	0.07 (muscle) 0.11 (fat)	0.12 (muscle) 0.24 (fat)
	ML 0106	Milks	-	-	0.03	
	SO 0697	Peanut	0.03	-	0.03	0.05
	AL 0697	Peanut, hay and/or straw	50 (dw)	-	36.5 (as received)	91 (as received)
	PF 0111	Poultry fats	0.01 (*)	-	0.05	0.05
	PM 0110	Poultry meat	0.01(*)	-	0.05	0.05
	PO 0111	Poultry, edible offal of	0.01 (*)	-	0.11	0.12
	CM 1206	Rice bran, processed	80	-	48	-
	GC 0649	Rice grain	30 ^a	-	16.5	-
	CM 1207	Rice, hulls	80	-	67	-
	CM 0649	Rice, husked	4	-		-
CM 1205	Rice, polished	10	-	1.95	-	

Definition of the residue for compliance with the MRL for plant and animal commodities: *Propiconazole*.

Definition of the residue for dietary risk assessment for plant and animal commodities: *Propiconazole plus all metabolites convertible to 2,4-dichlorobenzoic acid, expressed as propiconazole*.

The residue is fat-soluble.

Pyrethrins (063)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Pyrethrins (063)	-	-	-	-	-	-

On the basis of the data obtained from supervised trials, JMPR did not make any recommendations for establishing MRLs and for IEDI assessments. This was due to the fact that no trial matched the GAP and / or insufficient data.

Definition of the residue for compliance with MRLs and for dietary risk assessment for plant and animal commodities: *Total pyrethrins, calculated as the sum of pyrethrins 1 and 2, cinerins 1 and 2, and jasmolins 1 and 2, determined after calibration with World Standard pyrethrum extract*.

The residue is fat-soluble

Tetraniliprole (324)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Tetraniliprole (324)	FC 0003	Subgroup of mandarins (including mandarin-like hybrids)	1.5	1.0	0.19	-

The critical GAP for mandarins and lemons is the same (citrus fruit). As such the residues from both crops can be assessed against the critical GAP in the USA for citrus fruit of three foliar applications at 60 g ai/ha, with a retreatment interval of 5 days and a PHI of 1 day.

- Residues of tetraniliprole in mandarins both for maximum residue estimation and risk assessment in ranked order were (n=4): 0.17, 0.18, 0.19 and 0.54 mg/kg in whole fruit.
- Residues of tetraniliprole in lemons both for maximum residue estimation and risk assessment in ranked order were (n=5): 0.062, 0.13, 0.19, 0.20 and 0.77 mg/kg in whole fruit.

The combined dataset for residues in mandarins and lemons both for MRL and risk assessment in ranked order were (n=9): 0.062, 0.13, 0.17, 0.18, 0.19, 0.19, 0.20, 0.54 and 0.77 mg/kg in whole fruit.

Mandarins are a major crop and as such at least 6 trials should be available. Considering the request of the EU, noting that the median residues for mandarins and lemons are similar and the datasets are of a similar population (Mann-Whitney) the 2023 JMPR agreed to combine the datasets.

The 2023 JMPR estimated a maximum residue level of 1.5 mg/kg, and an STMR of 0.19 mg/kg for Subgroup of Mandarins (including mandarin-like hybrids), based on the combined dataset of mandarins and lemons. Thereby replacing its previous recommendation (JMPR 2022) of a maximum residue level of 1.0 mg/kg and an STMR of 0.185 mg/kg for tetraniliprole in the Subgroup of Mandarins (including mandarin-like hybrids).

Thiamethoxam (245)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Thiamethoxam (245)	AM 0660	Almond hulls	2 (dw)	-	0.32 (as)	-
	VS 0624	Celery	W	1	-	-
	HS 0780	Cumin seed	1	-	0.26	-
	VO 0050	Fruiting vegetables other than cucurbits	W	0.7	-	-
	VO 0050	Fruiting vegetables other than cucurbits except goji berry	0.7	-	0.08	0.47
	VO 2704	Goji berry	1.5	-	0.21	0.65
	DV 2704	Goji berry, dried	5	-	0.225	1.7
	TN 0085	Group of tree nuts	0.01*	-	0.01	0.01
	VA 0385	Onion, bulb	0.02	-	0.01	0.014
	TN 0672	Pecan	W	0.01*	-	-
VS 2080	Subgroup of stems and petioles	0.8	-	0.215	0.4	

(as): as received

(dw): dry weight

Definition of the residue for compliance with the MRL and dietary risk assessment for plant commodities: *Thiamethoxam*.

Definition of the residue for compliance with the MRL and dietary risk assessment for 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 considered separately).

The residue is not fat-soluble.

Thiophanate-methyl (077)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)			STMR or STMR-P mg/kg		HR or HR-P mg/kg	
			New	Previous					
Thiophanate-methyl (077) ADI: 0–0.09 mg/kg bw ARFD: 1 mg/kg bw	TN 0660	Almond	0.15*	0.1		TM MBC	0.05 0.05	TM MBC	0.05 0.05
	FS 0240	Apricot	W	2	B	-	-	-	-
	VS 0621	Asparagus	W	0.2	C	-	-	-	-
	FI 0327	Banana	W	0.2	B	-	-	-	-
	GC 0640	Barley	W	0.5	C	-	-	-	-
	AS 0640	Barley, hay and/or straw	W	2	C	-	-	-	-
	VD 0071	Beans (dry)	W	0.5	Th	-	-	-	-
	FB 0018	Berries and other small fruits, except grapes	W	1	B, Th	-	-	-	-
	VB 0402	Brussels sprouts	W	0.5	B	-	-	-	-
	VR 0577	Carrot	W	0.2	B	-	-	-	-
	MM 0812	Cattle meat	W	0.05*	B	-	-	-	-
	FS 0013	Cherries (subgroup)	W	10	T	-	-	-	-
	PF 0840	Chicken fat	W	0.05	B	-	-	-	-
	SB 0716	Coffee beans	W	0.1	C	-	-	-	-
	VP 0526	Common bean (pods and/or immature seeds)	W	0.5	T	-	-	-	-
	VC 0424	Cucumber	W	0.05*	B, C	-	-	-	-
	MO 0105	Edible offal (mammalian)	W	0.05*	B	-	-	-	-
	PE 0112	Eggs	W	0.05*	B	-	-	-	-
	VP 0529	Garden pea, shelled (succulent seeds)	W	0.02	T	-	-	-	-
	VC 0425	Gherkin	W	0.05*	B, C	-	-	-	-
	FB 0269	Grapes	W	3	B, T	-	-	-	-
	VL 0482	Lettuce, head	W	5	T	-	-	-	-
	FI 0345	Mango	W	5	C	-	-	-	-
	ML 0106	Milks	W	0.05*	B	-	-	-	-
	FS 0245	Nectarine	W	2	B	-	-	-	-
	FC 0004	Oranges, sweet, sour (including orange-like hybrids) (subgroup)	W	1	B	-	-	-	-
	FS 0247	Peach	W	2	B	-	-	-	-
	SO 0697	Peanut	W	0.1*	T	-	-	-	-
	AL 0697	Peanut fodder	W	3	T	-	-	-	-
	VO 0444	Peppers chili	W	2	T	-	-	-	-
	HS 0444	Peppers chili, dried	W	20	C	-	-	-	-
	FI 0353	Pineapple	W	5	B	-	-	-	-
	FS 0014	Plums (including fresh prunes) (subgroup)	W	0.5	B	-	-	-	-
	FP 0009	Pome fruits (group)	W	3	B, C, T	-	-	-	-
	PM 0110	Poultry meat	W	0.05*	B	-	-	-	-
	SO 0495	Rape seed	W	0.05*	C	-	-	-	-
	AS 0469	Rice, hay and/or straw	W	15	C	-	-	-	-
	CM 0649	Rice, husked	W	2*	B	-	-	-	-
	GC 0650	Rye	W	0.1	C, T	-	-	-	-
	VD 0541	Soya bean (dry)	W	0.5	T	-	-	-	-
AL 0541	Soya bean, hay and/or straw	W	0.1	C	-	-	-	-	

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)			STMR or STMR-P mg/kg		HR or HR-P mg/kg	
			New	Previous					
	HS 0191	Spices, fruits, and berries	W	0.1		-	-	-	-
	HS 0193	Spices, roots, and rhizomes	W	0.1		-	-	-	-
	HS 0190	Spices, seeds	W	5		-	-	-	-
	VC 0431	Squash, summer	W	0.5	T	-	-	-	-
	VR 0596	Sugar beet	W	0.1*	T	-	-	-	-
	VO 0448	Tomato	W	0.5	B, C	-	-	-	-
	TN 0085	Tree nuts (group)	W	0.1*	B	-	-	-	-
	GC 0654	Wheat	W	0.05*	B, T	-	-	-	-
	AS 0654	Wheat, hay and/or straw	W	1	Risk a	-	-	-	-

Note: Previous MRL was the sum of benomyl, carbendazim, and thiophanate-methyl, expressed as carbendazim. Letters in upper case indicate the source(s) of the data on which the MRL is based. (B: benomyl; C: carbendazim; T: thiophanate-methyl).

Definition of the residue for compliance with the MRL for plant commodities: *Sum of thiophanate-methyl and carbendazim, expressed as thiophanate-methyl.*

Definition of the residue for compliance with the MRL for animal commodities: *Sum of thiophanate-methyl, carbendazim, and sodium 2-(methoxycarbonylamino)-1H-benzimidazol-5-yl (5-OH-MBC) (free and conjugated), expressed as thiophanate-methyl.*

Definition of the residue for dietary risk assessment for plant and animal commodities: *Thiophanate-methyl.*

Carbendazim and 5-OH-MBC (free and conjugated) need to be assessed, separately, against the TTC Cramer Class III threshold. The threshold applies to both chronic and acute exposure estimates.

The residue is not fat-soluble.

Tricyclazole (337)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Tricyclazole (337) ADI: 0–0.05 mg/kg bw ARFD: 0.05 mg/kg bw	MO 0105	Edible offal (mammalian)	0.1	-	Liver 0.016 (Kidney 0.008)	Liver 0.18 (Kidney 0.025)
	PE 0112	Eggs	0.01 (*)	-	0	0
	CM 0649	Husked rice	0.3	-	0.01	-
	MF 0100	Mammalian fats (except milk fats)	0.01 (*)	-	0	0
	MM 0095	Meat (from mammals other than marine mammals)	0.01 (*)	-	0	0
	ML 0106	Milks	0.01 (*)	-	0	-
	CM 1205	Polished rice	0.3	-	0.01	-
	PF 0111	Poultry fats	0.01 (*)	-	0	0
	PM 0110	Poultry meat	0.01 (*)	-	0	0
	PO 0111	Poultry, edible offal of	0.01 (*)	-	0.009	0.010
	GC 0649	Rice	5	-	0.735	-
	AS 0649	Rice, hay and/or straw	5 (dw)	-	0.01 (median, ar)	3.47 (highest, ar)
	AS 3570	Rice, hulls	15 (dw)	-	0.02 (median, ar)	-

(as): as received

(dw): dry weight

Definition of the residue for compliance with the MRL for plant and animal commodities: Tricyclazole.Definition of the residue for risk assessment for plant and animal commodities: Sum of tricyclazole and 1,3,4-triazolo[3,4-b][1,3]benzo-thiazol-5-methanol, expressed as tricyclazole.

The residue is not fat-soluble.

Zeta-cypermethrin (118)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR or STMR-P mg/kg	HR or HR-P mg/kg
			New	Previous		
Zeta-cypermethrin (118)	FI 0326	Avocado	0.5	-	0.14	0.28
	VA 2031	Subgroup of bulb onions	0.05*	0.01*	0	0
	FB 2006	Subgroup of bush berries	1.5	-	0.40	0.53

Definition of the residue for both compliance with MRL and estimation of dietary intake for plant and animal commodities: Cypermethrins (sum of alpha and zeta).

The residue is fat-soluble.