

# COMISIÓN DEL CODEX ALIMENTARIUS



Organización de las Naciones  
Unidas para la Alimentación  
y la Agricultura



Organización  
Mundial de la Salud

Viale delle Terme di Caracalla, 00153 Roma, Italia - Tel: (+39) 06 57051 - Correo electrónico: [codex@fao.org](mailto:codex@fao.org) - [www.codexalimentarius.org](http://www.codexalimentarius.org)

CL 2024/44-PR  
Marzo de 2024

**A:** Puntos de contacto del Codex  
Puntos de contacto de organizaciones internacionales con condición de observador ante el Codex

**DE:** Secretaría de la Comisión del Codex Alimentarius  
Programa Conjunto FAO/OMS sobre Normas Alimentarias

**ASUNTO:** **Solicitud de observaciones en el trámite 3 sobre las recomendaciones de la Reunión Conjunta FAO/OMS sobre Residuos de Plaguicidas (JMPR) (2023)<sup>1</sup>**

**PLAZO:** **5 de mayo de 2024**

## Antecedentes

1. La Reunión Conjunta FAO/OMS sobre Residuos de Plaguicidas (JMPR) se celebró del 19 al 28 de septiembre de 2023.
2. Durante la reunión, el Grupo de expertos de la FAO se encargó de examinar los residuos y los aspectos analíticos de los plaguicidas objeto de estudio, incluidos los datos sobre su metabolismo, destino en el medio ambiente y patrones de uso, así como de estimar los niveles máximos de residuos que podrían producirse como resultado del uso de los plaguicidas de acuerdo con las buenas prácticas agrícolas (BPA). Se estimaron los niveles máximos de residuos y las concentraciones medias de residuos en ensayos supervisados para los productos alimenticios de origen animal. El Grupo básico de evaluación de la OMS se encargó de examinar los datos toxicológicos y otros datos conexos con el fin de establecer ingestas diarias admisibles (IDA) y dosis agudas de referencia (DRA), en caso necesario.
3. En la reunión se evaluaron 35 plaguicidas, entre los que figuraban seis compuestos nuevos y ocho compuestos que habían sido reevaluados en el marco del programa de examen periódico del Comité del Codex sobre Residuos de Plaguicidas (CCPR) por lo que respecta a la toxicidad, a los residuos o a ambos aspectos.
4. En la reunión se establecieron las IDA y las DRA, se estimaron los niveles máximos de residuos y se recomendó que el CCPR los utilizara. Asimismo, se estimaron las concentraciones medias de residuos en ensayos supervisados y los niveles más elevados de residuo como base para estimar la ingesta alimentaria.
5. En la reunión se calcularon también las exposiciones alimentarias (tanto a corto como a largo plazo) de los plaguicidas examinados y, sobre esta base, se llevó a cabo una evaluación del riesgo alimentario en relación con la IDA correspondiente y, en caso necesario, con la DRA. Se indicaron claramente los casos en los que las IDA o las DRA podían ser superadas a fin de facilitar el proceso de adopción de decisiones del CCPR.
6. Teniendo en cuenta la información disponible, se han señalado con notas los plaguicidas cuya exposición alimentaria estimada podría superar la IDA, así como determinados productos alimenticios cuando la información disponible indicaba que la DRA de un plaguicida podría superarse al consumir el producto. Las asignaciones y estimaciones se recogen en los cuadros que figuran en el anexo.
7. Los cuadros contienen los números de referencia del Codex de los compuestos y los números de la clasificación del Codex (NCC) de los productos, a fin de facilitar la referencia a los límites máximos de residuos (LMR) del Codex y otros documentos del Codex. Los compuestos figuran por orden alfabético.

<sup>1</sup> Las recomendaciones de la JMPR sobre límites máximos de residuos de plaguicidas corresponden al trámite 3 del procedimiento del Codex.

8. Además de las abreviaturas citadas anteriormente, en los cuadros se utilizan las cualificaciones siguientes.

* (después del nombre del plaguicida)	Nuevo compuesto.
** (después del nombre del plaguicida)	Compuesto examinado en el programa de examen periódico del CCPR.
* (después del LMR recomendado)	LMR en el límite de cuantificación o próximo al mismo.
Ar (como se recibe)	Las concentraciones medias o más elevadas de residuos se expresan teniendo en cuenta el contenido de humedad del producto forrajero "como se recibe".
Dw (peso en seco)	El valor se expresa teniendo en cuenta el peso en seco del producto forrajero.
HR-P (RME-E en sus siglas en español)	Concentración de RME en un producto elaborado, en mg/kg, calculada multiplicando la concentración de RME en el producto sin elaborar por el factor de reducción de la concentración en la elaboración.
Po	La recomendación incluye los tratamientos de postcosecha del producto.
Pop (siguiendo la recomendación para alimentos elaborados (categorías D y E en la clasificación del Codex))	La recomendación incluye los tratamientos de postcosecha del producto alimenticio primario.
STMR-P (MRES-E en sus siglas en español)	Concentración MRES de un producto elaborado calculada aplicando el factor de concentración o de reducción del proceso a la concentración MRES calculada para el producto agrícola sin elaborar.
W (S en su sigla en español) (en lugar de un LMR recomendado)	La recomendación previa se ha suprimido, o se recomienda la supresión del LMR recomendado, el LMR vigente del Codex o el proyecto de LMR.

9. El informe de la reunión de 2023 (incluido el Anexo I) está disponible solo en inglés en los siguientes enlaces:

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

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

En caso de tener problemas para descargar el citado documento, póngase en contacto con las secretarías de la JMPR en la FAO o la OMS en las direcciones que se indican a continuación a fin de obtener una copia mediante correo electrónico:

Secretaría de la JMPR en la FAO  
Correo electrónico: [Pesticide-Management@fao.org](mailto:Pesticide-Management@fao.org)

Secretaría de la JMPR en la OMS  
Correo electrónico: [JMPR@WHO.INT](mailto:JMPR@WHO.INT)

### SOLICITUD DE OBSERVACIONES

- Los miembros del Codex y las organizaciones internacionales con condición de observadoras en el Codex que deseen presentar observaciones sobre los proyectos de LMR que corresponden al trámite 3 del procedimiento del Codex propuestos por la JMPR celebrada en 2023, sobre otras recomendaciones que sean pertinentes para el trabajo del CCPR en su 55.ª reunión (véanse los cuadros del anexo), así como los formularios para expresar preocupaciones, deberán hacerlo por escrito, de acuerdo con el Procedimiento para la elaboración de normas del Codex y textos afines (*Manual de procedimiento del Codex Alimentarius*), y en el plazo indicado en la primera página.
- Los formularios para expresar preocupaciones se enviarán por separado a la Secretaría del Codex ([codex@fao.org](mailto:codex@fao.org)) con copia a la Secretaría del CCPR ([ccpr@agri.gov.cn](mailto:ccpr@agri.gov.cn)) en un archivo Word para facilitar su compilación.
- Las cartas circulares se encuentran disponibles en el sitio web del Codex<sup>2</sup> (Cartas circulares, 2024) y también en el sitio web de la 55.ª reunión del CCPR<sup>3</sup>.
- Se invita a los miembros del Codex y los observadores a presentar observaciones sobre los LMR que figuran en el anexo (**SOLO EN INGLÉS**) de la presente carta circular, que se encuentra cargado en el Sistema de comentarios en línea (OCS) del Codex: <https://ocs.codexalimentarius.org/>, de conformidad con las instrucciones que figuran a continuación, teniendo a la vez en cuenta los datos y la información facilitados en el informe de la JMPR (2023).

<sup>2</sup> <https://www.fao.org/fao-who-codexalimentarius/resources/circular-letters/es/>

<sup>3</sup> <https://www.fao.org/fao-who-codexalimentarius/committees/committee-detail/related-circular-letters/es/?committee=CCPR>

**INSTRUCCIONES PARA LA PRESENTACIÓN DE OBSERVACIONES**

14. Los miembros del Codex y observadores deberán presentar las observaciones a través de sus respectivos puntos de contacto utilizando el OCS del Codex.
15. Los puntos de contacto de los miembros del Codex y observadores pueden acceder al OCS y al documento abierto a las observaciones seleccionando "Acceder" en la página "Mis revisiones", disponible una vez que se ha accedido al sistema.
16. Se pueden consultar otros recursos adicionales del OCS, entre los que se incluyen las [preguntas frecuentes](#) del OCS, así como el Manual del usuario y una breve guía, en el siguiente enlace: <http://www.fao.org/fao-who-codexalimentarius/ocs/es/>.
17. Cualquier consulta sobre el OCS debe ser dirigida a [Codex-OCS@fao.org](mailto:Codex-OCS@fao.org).

**ANEXO**  
**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		
<b>1,4-Dimethylnaphthalene (331)</b> 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		
<b>Acetamiprid (246)</b>	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		
<b>Boscalid (221)</b> 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		
<b>Carbendazim (72)</b>	-	-	-	-	-	-
<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		
<b>Carbofuran (96)</b> 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	<i>Alfalfa forage (green)</i>	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 <sup>(1)</sup>	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	<i>Maize forage<sup>(2)</sup></i>	W	0.5	-	-
	GC 0645	Maize <sup>(1)</sup>	W	0.05 (*)	-	-
	FC 0206	Mandarin <sup>(1)</sup>	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	<i>Sorghum forage (green)</i>	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	<i>Sugar beet leaves or tops<sup>(2)</sup></i>	W	0.07	-	-
	VR 0596	Sugar beet <sup>(1)</sup>	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	-	-	

<sup>(1)</sup>Arising from the use of carbofuran

## Carbosulfan (145)

Compound	CCN	Commodity	Recommended Maximum residue level (mg/kg)		STMR <sub>chronic</sub> or STMR-P <sub>chronic</sub> (mg/kg)	STMR <sub>acute</sub> or STMR-P <sub>acute</sub> (mg/kg)	HR <sub>(acute)</sub> or HR-P <sub>(acute)</sub> (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)<sub>chronic</sub> Expressed as toxic equivalent residues (carbosulfan +10×carbofuran)

STMR(-P)<sub>acute</sub> Expressed as toxic equivalent residues (carbosulfan + 20×carbofuran)

HR<sub>(acute)</sub> 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		
<b>Clothianidin (238)</b>	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		
<b>Cyflumetofen (273)</b>	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		
<b>Deltamethrin (135)</b>	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  $\alpha$ -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		
<b>Difenoconazole (224)</b>	FB 2005	Cane berries	3	-	0.69	1.7
	CF 3516	Maize aspirated grain fractions <sup>a</sup>	-	-	0.5	-
	CF 3517	Maize gluten <sup>a</sup>	0.05	-	0.031	-
	OC 0645	Maize oil, crude	0.02	-	0.012	-
	AS 3569	Maize, bran <sup>a</sup>	-	-	0.032	-
	CF 1255	Maize, flour	0.015	-	0.008	-
	AS 0645	Maize, hay and/or straw <sup>a</sup>	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		
<b>Diflubenzuron (130)</b>	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		
<b>Dinotefuran (255)</b>	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 <sup>A)</sup>	0.55 <sup>A)</sup>

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		
<b>Emamectin (247)</b> (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: Sum of florylpicoxamid and X12485649 expressed as florylpicoxamid.</u></p> <p><u>Definition of the residue definition for compliance with the MRL and dietary exposure for animal commodities: Sum of florylpicoxamid and X12485649 expressed as florylpicoxamid.</u></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		
<b>Fluazinam (333)</b>	-	-	-	-	-	-
<p><u>Definition of the residue for plant commodities for enforcement of MRLs: Fluazinam</u></p> <p><u>Definition of the residue for plants for dietary risk assessment: JMPR was unable to conclude on a residue definition for risk assessment.</u></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	-	
		<b>(animal feed commodities)</b>				<b>(median)</b>	<b>(highest)</b>
		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		
<b>Imazapyr (267)</b>	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	
<b>Residue level for feed</b>						
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		
<b>Isocycloseram (334)</b> 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: Isocycloseram.</u></p> <p><u>Definition of the residue for compliance with the MRL for animal commodities: Isocycloseram.</u></p> <p><u>Definition of the residue for dietary risk assessment for animal commodities: Sum of isocycloseram 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 isocycloseram).</u></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		
<b>Isoflucypram (330)</b> 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		
<b>Isotianil (335)</b> 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		
<b>Mepiquat-chloride (336)</b> 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
		<b>(animal feed commodities)</b>	-	-	<b>Median</b>	-
		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		
<b>Oxathiapiprolin (291)</b>	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-glucopyranosyl-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		
<b>Permethrin (120)</b>	-	-	-	-	-	-

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		
<b>Piperonyl butoxide (062)</b>	-	-	-	-	-	-

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		
<b>Prochloraz (142)</b> 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		
<b>Propiconazole (160)</b>	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 <sup>a</sup>	-	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		
<b>Pyrethrins (063)</b>	-	-	-	-	-	-

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		
<b>Tetraniliprole (324)</b>	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		
<b>Thiamethoxam (245)</b>	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		
<b>Tricyclazole (337)</b> 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		
<b>Zeta-cypermethrin (118)</b>	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.