



JOINT FAO/WHO FOOD STANDARDS PROGRAMME

CODEX COMMITTEE ON PESTICIDE RESIDUES

Fifty-sixth Session
Santiago, Chile
8-13 September 2025

CODEX MAXIMUM RESIDUE LIMITS FOR MILK AND MILK FAT

(Prepared by the Codex Secretariat)

BACKGROUND

1. At the 55th Session of the Codex Committee on Pesticide Residues (CCPR55, 2024), the Codex Secretariat informed the Committee that CCPR40 (2008) had agreed that for fat-soluble pesticides with MRLs established for both milk and milk fat, for regulation and monitoring purposes, whole milk should be analysed and the result compared with the MRL for whole milk. CCPR40 also agreed to ask the Joint FAO/WHO Meeting on Pesticide Residues (JMPR) to insert a note to this effect alongside the MRL for whole milk in all cases where MRLs were established for both milk fat and whole milk.¹
2. The Codex Secretariat further noted that this decision had never been implemented, and the Codex database would need to be updated after all relevant CXLs at CCPR56 were considered.
3. CCPR55 agreed to ask JMPR to:²
 - add the footnote agreed in 2008 to all future MRL recommendations for whole milk, where an MRL is also recommended for milk fats, that reads: *“for monitoring and regulatory purposes, whole milk is to be analysed, and the result compared to the MRL for whole milk”*; and
 - advise on adopting the footnote to the compounds identified by the Codex Secretariat with MRLs for whole milk and milk fats.

WORK PROCESS

4. The Codex Secretariat reviewed all compounds (fat-soluble and non-fat-soluble) in the Codex database for MRLs for pesticides, having CXLs for both milk and milk fat, either CXLs for milk from a particular animal (e.g. cattle milk (ML 0812)) or group CXLs (e.g., milks (ML 0106)). The exercise did not consider the MRL recommendations arising from the JMPR meeting in 2024, which are to be considered by CCPR56 under Agenda Item 6.1.
5. The following compounds were identified as fat-soluble pesticides with CXLs established for both milk and milk fat (single animal or group CXLs) that require insertion of the note as recommended by CCPR40 and CCPR55.

¹ ALINORM 08/31/24, paras. 161-162

² REP24/PR55, paras. 83-85

Fat-soluble pesticides

1.	30	Diphenylamine	15.	229	Azoxystrobin
2.	32	Endosulfan	16.	230	Chlorantraniliprole
3.	90	Chlorpyrifos-Methyl	17.	233	Spinetoram
4.	118	Cypermethrin (including alpha- and zeta- cypermethrin)	18.	236	Metaflumizone
5.	176	Hexythiazox	19.	242	Flubendiamide
6.	178	Bifenthrin	20.	249	Isopyrazam
7.	190	Teflubenzuron	21.	256	Fluxapyroxad
8.	194	Haloxypop	22.	259	Sedaxane
9.	201	Chlorpropham	23.	262	Bixafen
10.	216	Indoxacarb	24.	264	Fenamidone
11.	217	Novaluron	25.	286	Lufenuron
12.	219	Bifenazate	26.	292	Pendimethalin
13.	221	Boscalid	27.	296	Cyclaniliprole
14.	222	Quinoxifen	28.	297	Fenazaquin
			29.	304	Ethiprole
			30.	326	Broflanilide
			31.	330	Isoflucypram

6. There are CXLs established for Triflumezopyrim (303) and Fluazaindoline (327) in both milk and milk fat, however the note will not be applied for these two compounds because the JMPR has classified these two pesticides as not fat-soluble
7. Based on the recommendation in paragraph 3, first bullet point of this document, it is understood that:
1. The note will apply only when a compound **has CXLs established for both milk and milk fat**
 2. The note will be inserted against the **CXL for milk**
 3. The note will apply only **to fat-soluble pesticides**
 4. The note will apply in all situations i.e., **whether the CXLs for milk and milk fat are the same or different.**

These points require further confirmation by CCPR to proceed with the insertion of the note.

8. Examples of insertion of the note in the Codex database are provided in the Appendix.
9. To review the decision taken by CCPR40, Codex members and observers are invited to consult the working document submitted at CCPR40 to support the recommendation in paragraph 3, first bullet point, i.e. [CX/PR 08/40/11](#), available on the Codex webpage which indicates, in summary, that if milk fat is separated from whole milk by solvent extraction prior to analysis, it is likely that residues present in the aqueous fraction of the milk will be co-extracted with the fat, making it possible that the calculated residue concentration in fat will exceed the MRL for fat even if the actual residue concentration is less than the MRL.

CONCLUSIONS

10. Based on the recommendation of CCPR40 as described in paragraph 3, first bullet point, and the information provided in paragraph 7 of this document, CCPR should confirm that the note applies to fat-soluble compounds with CXLs established for both milk and milk fat, and that the note should accompany the CXL for milk in the Codex database for MRLs for pesticides.

RECOMMENDATIONS

11. CCPR is invited to:
- (i) confirm the decision taken by CCPR40 to insert a note *“for monitoring and regulatory purposes, whole milk is to be analysed, and the result compared to the MRL for whole milk”* to the CXLs for milk in the Codex database in all cases where CXLs are established for fat-soluble pesticides in both milk and milk fat; and
 - (ii) reiterate its request to JMPR to insert this note alongside the MRL for whole milk in all cases where MRLs were established for both milk fat and whole milk for fat-soluble pesticides.

APPENDIX
EXAMPLE OF INSERTION OF THE NOTE FOR CXLs FOR MILK
WHEN THERE ARE CXLs FOR MILK AND MILK FAT
(For information)
(English only)

326 Broflanilide

Main Uses: Insecticide

ADI: 0–0.02 mg/kg bw (2022)

ARfD: Unnecessary (2022)

Residue: For compliance with the MRL and dietary risk assessment for plant commodities: Broflanilide.

For compliance with the MRL and dietary risk assessment for animal commodities: Sum of broflanilide plus 3-benzamido-N-[2-bromo-4-(perfluoropropan-2-yl)-6-(trifluoromethyl) phenyl]-2-fluorobenzamide (DM-8007), expressed as broflanilide. The residue is fat-soluble.

Commodity		MRL (mg/kg)	Source	Note CXL	Step	JMPR	CCPR	Prior CCPR	CAC	Note CCPR
Code	Name									
VB 0041	Cabbages, head	2			CXL	2022	54		2023	
GC 0080	Cereal grains (group)	0.001 (*)		(except rice)	CXL	2022	54		2023	
AS 3304	Cereal grains (including pseudocereals) feed products with low water (<20%) content (hay and/or straw) (subgroup)	0.01 (dw)		(except rice feed products)	CXL	2022	54		2023	
VL 0466	Chinese cabbage - (type pack choi)	2			CXL	2022	54		2023	
SB 0716	Coffee beans	0.01			CXL	2022	54		2023	
MO 0105	Edible offal (mammalian)	0.03			CXL	2022	54		2023	
PE 0112	Eggs	0.03			CXL	2022	54		2023	
CF 1255	Maize flour	0.002			CXL	2022	54		2023	
AS 3569	Maize, bran	0.002			CXL	2022	54		2023	
MF 0100	Mammalian fats (except milk fats)	0.15			CXL	2022	54		2023	
MM 0095	Meat (from mammals other than marine mammals)	0.15 (fat)			CXL	2022	54		2023	

Commodity		MRL (mg/kg)	Source	Note CXL	Step	JMPR	CCPR	Prior CCPR	CAC	Note CCPR
Code	Name									
FM 0183	Milk fats	0.4			CXL	2022	54		2023	
ML 0106	Milks	0.015		For monitoring and regulatory purposes, whole milk is to be analysed, and the result compared to the MRL for the whole milk	CXL	2022	54		2023	
PF 0111	Poultry fats	0.15			CXL	2022	54		2023	
PM 0110	Poultry meat	0.02 (*)			CXL	2022	54		2023	
PO 0111	Poultry, edible offal of	0.03			CXL	2022	54		2023	
VR 0591	Radish, Japanese	0.01			CXL	2022	54		2023	
VR 2071	Tuberous and corm vegetables (subgroup)	0.04			CXL	2022	54		2023	
CF 1210	Wheat germ	0.002			CXL	2022	54		2023	

190 Teflubenzuron

Main Uses: Insect growth regulator

ADI: 0-0.005 mg/kg bw (2016)

ARfD: Unnecessary (2016)

Residue: For compliance with the MRL and dietary risk assessment for plant and animal commodities: Teflubenzuron.

The residue is fat-soluble.

Commodity Code	Name	MRL (mg/kg)	Source	Note CXL	Step	JMPR	CCPR	Prior CCPR	CAC	Note CCPR
FP 0226	Apple	0.5			CXL	2016	49		2017	
VB 0404	Cauliflower	0.01 (*)			CXL	2016	49		2017	
SB 0716	Coffee beans	0.3			CXL	2016	49		2017	
VC 0424	Cucumber	0.5			CXL	2016	49		2017	
MO 0105	Edible offal (mammalian)	0.01 (*)			CXL	2016	49		2017	
PE 0112	Eggs	0.01 (*)			CXL	2016	49		2017	
VC 0425	Gherkin	1.5			CXL	2016	49		2017	
FB 0269	Grapes	0.7			CXL	2016	49		2017	
FC 0002	Lemons and limes (including citron) (subgroup)	0.5		(includes all commodities in this subgroup)	CXL	2016	49		2017	
GC 0645	Maize	0.01 (*)			CXL	2016	49		2017	
OR 0645	Maize oil, edible	0.015			CXL	2016	49		2017	
MF 0100	Mammalian fats (except milk fats)	0.01 (*)			CXL	2016	49		2017	
MM 0095	Meat (from mammals other than marine mammals)	0.01 (*)			CXL	2016	49		2017	
VC 0046	Melons, except watermelon	0.3			CXL	2016	49		2017	
FM 0183	Milk fats	0.01 (*)			CXL	2016	49		2017	
ML 0107	Milk of cattle, goats & sheep	0.01 (*)		For monitoring and regulatory purposes, whole milk is to be analysed, and the result compared to the MRL for the whole milk	CXL	2016	49		2017	

Commodity		MRL (mg/kg)	Source	Note CXL	Step	JMPR	CCPR	Prior CCPR	CAC	Note CCPR
Code	Name									
OR 0004	Orange oil, edible	126			CXL	2016	49		2017	
FC 0004	Oranges, sweet, sour (including Orange-like hybrids) (subgroup)	0.5		(includes all commodities in this subgroup)	CXL	2016	49		2017	
FI 0350	Papaya	0.4			CXL	2016	49		2017	
PF 0111	Poultry fats	0.01 (*)			CXL	2016	49		2017	
PM 0110	Poultry meat	0.01 (*)			CXL	2016	49		2017	
PO 0111	Poultry, edible offal of	0.01 (*)			CXL	2016	49		2017	
VD 0541	Soya bean (dry)	0.05			CXL	2016	49		2017	
AB 0541	Soya bean hulls	0.2			CXL	2016	49		2017	
GS 0659	Sugar cane	0.01 (*)			CXL	2016	49		2017	
SO 0702	Sunflower seed	0.3			CXL	2016	49		2017	
VO 0448	Tomato	1.5			CXL	2016	49		2017	