

Citrus Export MRLs

September 2022



1. Information in this document is provided to help industry comply with maximum residue limits (MRLs) in export markets.
2. The MRLs listed in this document have been developed using currently available information obtained from domestic and international regulatory authorities.
3. The MRL tables in this document relate to thirteen importing countries, plus European and MRLs established by the Codex Alimentarius Commission. If the country you are exporting to does not appear on this list, please contact Citrus Australia, as we may have some additional data.
4. Citrus Australia cannot guarantee the accuracy of the information, because MRL standards are subject to continual change and importing country regulations are not always entirely clear.
5. We strongly recommend that this information be used in conjunction with residue testing, to avoid MRLs breaches in export markets.
6. Examples of trade names does not signify product endorsement.
7. When the MRL is followed by a letter in parentheses (**G**, **L**, **M** or **O**), the MRL refers specifically to **G**rapefruit, or **L**emons or **M**andarins or **O**ranges.
8. Where an MRL has not been set by the importing country, the table shows a hyphen (-). In these cases, residues must not be detectable unless a default limit applies.
9. Where an MRL has not been set by the importing country but where Codex MRLs are known to be accepted by that importing country the hyphen is accompanied by superscript cdx (- ^{cdx}).

CITRUS MAXIMUM RESIDUE LIMITS

For agricultural chemicals registered for use on Australian oranges, grapefruit, mandarins and lemons, for domestic and export markets. Updated 1 September 2022

Destination Country	What to do in absence of an MRL in that market		Comment
	Do I defer to a Codex MRL?	What if Codex also has no set MRL?	
Australia	× No. Only use the Australian citrus MRL.		The registration status of the chemicals listed may vary for each commodity and in each state. Prior to using any chemical, consult the label and/or regulatory authority in your state.
Canada	× No. Default to 0.1 mg/kg	Default to 0.1 mg/kg	In the absence of an established MRL, Canada defaults to MRL of 0.1 mg/kg for imports.
China	× No. We have no evidence that China would defer to a Codex MRL.	Zero tolerance	MRLs are based on an unofficial translation of the Chinese MRLs (USDA, CH2021-0099, August 2021) and subsequent WTO SPS Notifications (most recently September 2021). The timeframes are uncertain for adoption of proposed MRL changes, so guidance should be sought from importers as to their status.
Codex		Zero tolerance	
EU	× EU only accept Codex under particular circumstances.	MRL defaults to 0.01 mg/kg	EU has recently been resisting MRLs proposed by Codex. For this reason, citrus producers are advised that residues should be below the limit of detection if the EU has not set an MRL.
Hong Kong	× No. Hong Kong does not defer to Codex.	Zero tolerance unless exception is made after review	The Pesticide Residues in Food Regulation (Cap. 132CM) came into operation on 1 August 2014.
Indonesia	× No. Indonesia does not defer to Codex		As per Regulation No. 55/Permentan/KR.040/11/2016 -Food Safety Surveillance for Entry of Fresh Food of Plant Origin.
Japan	× No, MRL defaults to 0.01 mg/kg	MRL defaults to 0.01 mg/kg	Japan operates under a Positive List System. In the absence of a domestic MRL, the default level of 0.01 mg/kg applies.
Korea	× No.	MRL defaults to 0.01 mg/kg	Korea has a Positive List System: for chemicals not registered for use in Korea, residues must be below 0.01 mg/kg unless an import tolerance has been established.
Malaysia	✓ Yes. In the absence of an established MRL, Codex MRLs apply	MRL defaults to 0.01 mg/kg	In the absence of a set domestic MRL, Codex MRLs apply. In the absence of either Malaysian or Codex MRL a maximum residue limit of 0.01 mg/kg applies [Subs. P.U.(A) 160/2004.].
New Zealand	✓ Yes. In the absence of an established MRL, Codex MRLs apply	Use the Australian MRL	Compliance with Australian Food Standards Code recognised by NZ due to Trans-Tasman Mutual Recognition Arrangement for Australian exports.
Philippines	✓ Yes. In the absence of an established MRL, Codex MRLs apply	Australian MRL may apply (subject to evaluation)	In absence of a listed MRL, Codex MRLs shall apply. In absence of Codex MRL, the Australian MRL may apply subject to evaluation of competent authority.
Singapore	✓ Yes. In the absence of an established MRL, Codex MRLs apply		In the absence of a nationally set MRL, default to the Codex level (MRLs as per S493/2013 wef 01/08/2013). Updated November 2021.
Taiwan	× No. Residues must be undetectable. Zero tolerance	Zero tolerance	TAIWAN: Pesticides not listed, except for those import tolerances developed, shall not be detected (MRLs as per Food No. 1101301706 Amended, August 18, 2021).
Thailand	✓ Yes. In the absence of an established MRL, Codex MRLs apply	MRL defaults to 0.01 mg/kg	In the absence of a Thai standard, Codex MRLs apply unless the chemical is listed in Annex 1 (banned chemicals). Residues of banned chemicals (listed in Annex 1) must be below 0.01 mg/kg.
USA	× NO	Zero tolerance	The US will only accept a Codex MRL if an import tolerance has also been established.

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Insecticides & miticides		Australia & NZ	Codex	Canada	China	EU	Hong Kong	Indonesia	Japan	Korea	Malaysia	Philippines	Singapore	Taiwan	Thailand	USA
Insecticides / Miticides / Nematicides																
abamectin (Vertimec)	MRL	0.01	0.02	0.02	0.2 (O,M) 0.02 (G,L)	0.04	0.01	0.01	0.1	0.02 (L) 0.05 (O)	0.02	0.01	- cdx	0.01	0.01	0.02
	WHP	7 days														
acetamiprid (Trivor)	MRL	1	1	0.5	0.5 (O,M,L) 2 (G)	0.9	0.5	1	2	0.5	1	- cdx	- cdx	0.5	- cdx	1
	WHP	14 days														
amitraz	MRL	0.01	0.5(O)	-	0.5 (L,M,O)	0.05	0.5	0.5 (O)	0.5 (GL) 0.9 (OM)	0.2 (L)	- cdx	0.5	-	0.2	- cdx	-
	WHP	Only use on non-bearing trees														
bifenthrin (Talstar)	MRL	0.05	0.05	-	0.05 (L,M,O)	0.05	0.05	0.05	2	0.5	- cdx	- cdx	0.05 (O)	0.5	0.05	0.05
	WHP	Withholding period not required when used according to label directions														
buprofezin (Applaud)	MRL	2	1	4 (OM)	0.5 (L,M,O)	0.01	1	1	2 (O) 3 (GLM)	2.5	- cdx	0.5 (O)	- cdx	0.5	- cdx	4
	WHP	28 days														
cadusafos (Rugby)	MRL	0.01	-	-	0.005	0.01	0.005 (M)	-	0.01	0.01	-	-	-	-	- cdx	-
	WHP	Withholding period not required when used according to label directions														
carbaryl (Bugmaster)	MRL	3 (LO)	15 <i>(proposed deletion)</i>	10	-	0.01	15	15	5 (OG) 15 (LM)	7 (O)	-	7	7	1	7	10
	WHP	3 days														
chlorpyrifos (Lorsban)	MRL	0.5	1 <i>(proposed deletion)</i>	1	2	0.01	2	1	1	1 <i>(proposed deletion)</i>	-cdx <i>(proposed deletion)</i>	1	0.3	0.01	Banned	Banned
	WHP	14 days				avoid				avoid	avoid			Avoid	avoid	avoid

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Insecticides & miticides (cont)		Australia & NZ	Codex	Canada	China	EU	Hong Kong	Indonesia	Japan	Korea	Malaysia	Philippines	Singapore	Taiwan	Thailand	USA
Insecticides / Miticides / Nematicides (continued)																
clothianidin (Samurai)	MRL	0.5	0.07	-	0.07	0.06 (proposed deletion)	0.07	0.07	2	0.3	- cdx	- cdx	- cdx	1	- cdx	0.07
	WHP															
cyantraniliprole (Exirel)	MRL	0.7	0.7	0.7	0.7	0.9	-	-	0.7	0.7	- cdx	- cdx	- cdx	-	- cdx	0.7
	WHP	Nil														
cyflumetofen (danisaraba)	MRL	0.3	0.3	0.3	5	0.5	-	-	10	0.3	- cdx	- cdx		1	- cdx	0.3
	WHP	7 days														
dimethoate & omethoate (Saboteur)	MRL	5	0.01	1.5	0.01	0.01	5	5	2	-	- cdx	2	2	0.2 Proposed deletion	Banned	2
	WHP	7 days	avoid		avoid	avoid			avoid	avoid	avoid	avoid	avoid	avoid	avoid	avoid
etoxazole (Paramite)	MRL	0.5	0.1	-	0.5 (O,M) 0.1 (G,L)	0.1	0.1	0.1	0.7	0.7 (L)	- cdx	- cdx	- cdx	0.7	- cdx	0.1 (MO)
	WHP															
fenbutatin oxide (Torque)	MRL	5	5 (proposed deletion)	2	1 (M) 5 (LO)	0.01	5	5	5	-	- cdx	- cdx	5	2	- cdx	20
	WHP	7 days														
imidacloprid (Trespass)	MRL	2	1	1	1	0.9	2	1	0.7	0.7	- cdx	1	- cdx	1	1 (M) - cdx	0.7 (MO)
	WHP	140 days														
maldison (Fyfanon)	MRL	4	7	-	2 (M,O) 4 (L)	2	7	7	7	4 (O)	- cdx	4	4	2	7 (MLO) 0.2 (G)	8
	WHP	3 days														
metaldehyde (Slugger)	MRL	1	-	-	-	0.05					-	-	-	-	0.01 (default limit)	0.26
	WHP	7 days														

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Insecticides & miticides (cont)		Australia & NZ	Codex	Canada	China	EU	Hong Kong	Indonesia	Japan	Korea	Malaysia	Philippines	Singapore	Taiwan	Thailand	USA
Insecticides / Miticides / Nematicides (continued)																
methiocarb (Mesurol)	MRL	0.1	-	-	-	0.03	-	-	0.05	0.05	-	-	0.05	-	0.01 (default limit)	-
	WHP	7 days														
methomyl (Nudrin)	MRL	1	1	1	0.2	0.01	1	1	10	-	- cdx	1	2	1	- cdx	2
	WHP	2 days														
methoxyfenozide (Prodigy)	MRL	1	2	10	2	2	1	2	3	3	- cdx	- cdx	- cdx	2	- cdx	3
	WHP	1														
permethrin (Zeeper)	MRL	0.05	0.5	-	2	0.05	2	0.5	5	-	- cdx	0.5	0.5	2	- cdx	-
	WHP	No WHP because the treatment is only applied to non-bearing trees														
piperonyl butoxide	MRL	8	5	8(O)	5		5	5	5	-	- cdx	- cdx	8	5	- cdx	8
	WHP	1 day														
pirimicarb (Pirimor)	MRL	0.5	3	-	-	3	3	3	0.5 (O), 0.05 (GLM)	-	- cdx	- cdx	0.5 (O), 0.05 (GLM)	0.5	- cdx	-
	WHP	2 days														
pyrethrins	MRL	1	0.05	1 (O)	0.05	1	0.05	0.05	1	1	- cdx	- cdx	1	0.05	- cdx	-
	WHP															

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Insecticides & miticides (cont)		Australia & NZ	Codex	Canada	China	EU	Hong Kong	Indonesia	Japan	Korea	Malaysia	Philippines	Singapore	Taiwan	Thailand	USA
Insecticides / Miticides / Nematicides (continued)																
pyriproxyfen (Admiral)	MRL	0.3	0.5	0.5	2 (O,M) 0.5 (L,G)	0.6	0.5	0.5	2	-	- cdx	- cdx	- cdx	0.3 (GL) 0.5 (MO)	- cdx	0.5
	WHP	7 days														
spinetoram (Success Neo)	MRL	0.2	0.15 (M) 0.07 (O)	0.3	0.15 (M,O)	0.07 (O) 0.02 (MLG)	0.07 (O)	0.07 (O)	0.7	0.05 (LO)	- cdx	- cdx	0.15 (M) 0.07 (O)	0.2	- cdx	0.3
	WHP	1 day														
spinosad (Success)	MRL	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	- cdx	- cdx	0.3	- cdx	0.3
	WHP	Withholding period not required when used according to label directions														
spirotetramat (Movento)	MRL	1	0.5	0.6	1 (M,O) 0.5 (GL)	0.5	1	0.5	3	0.5 (O) 2(L)	- cdx	- cdx	- cdx	0.5	- cdx	0.6
	WHP	21 days					21 days		21 days							
sulfoxaflor (Transform)	MRL	0.7	0.4 (L) 0.8 (MO) 0.15 (G)	0.7	2 (M,O) 0.4 (L)	0.15 (G) 0.4 (L) 0.8 (MO)	-	-	2	0.7 (O) 0.6 (L)	- cdx	- cdx	- cdx	0.7	- cdx	0.7
	WHP	1 day														
sulfur	MRL	Exempt	-	-	-	Exempt	-	-	-	-	Exempt	-	-	-	-	Exempt
	WHP	Withholding period not required when used according to label directions														
tebufenozide (Mimic)	MRL	1	2	-	2	2	2	2	2	-	- cdx	- cdx	- cdx	1.5	- cdx	2
	WHP	1 day														
thiamethoxam (Actara)	MRL	1	0.5	0.4	0.5	0.15	0.5	0.5	1	0.3	0.5	0.5 (O)	-	1(OM) 0.4 (G) 0.5(L)	- cdx	0.4
	WHP	49 days														

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Fungicides applied to orchards		Australia & NZ	Codex	Canada	China	EU	Hong Kong	Indonesia	Japan	Korea	Malaysia	Philippines	Singapore	Taiwan	Thailand	USA
Fungicides applied to orchards																
azoxystrobin (Amistar)	MRL	5	15	15	1 (O, M)	15	15	15	10	10	- cdx	- cdx	- cdx	10	- cdx	15
	WHP	N/A	N/A	N/A		Withholding period not required when used according to label directions										
captan (PER82043)	MRL	3 (M)	-	-	5 (O, M)	0.03	-	-	-	-	-	-	15	0.01	0.01 (default limit)	-
	WHP	28 days		28 days	28 days					28 days			28 days			
copper	MRL	10	-	50	-	20	-	-	Exempt	-	Exempt	-	30		-	Exempt
	WHP	1														
iprodione (PER14772)	MRL	5 (M)	-	0.07	-	0.01	5 (M)	-	10	7 (L)	-	-	-	0.01	0.01 (default limit)	-
	WHP	56 days					56 days		56 days							
mancozeb (Dithane)	MRL	7	10 (M) 2 (O)	-	5 (O, M)	5 (Under review)	4 (GLO) 10 (M)	2 (O) 10 (M)	2 (LOG) 10 (M)	3(L)	- cdx	2 (O) - cdx	- cdx	2	2	10 (M)
	WHP	Exporters should test for dithiocarbamates to ensure that MRLs are met														
phosphorous acid	MRL	100	50 (M) 20 (O)	-	-	75	-	-	150 Error! Bookmark not defined.	-	5	- cdx	- cdx	- Error! Bookmark not defined.	- cdx	Exempt
	WHP	N/A														
propineb (Antracol)	MRL	7	10 (M) 2 (O)	-	5 (O, M)	0.05	4 (GLO) 10 (M)	2 (O) 10 (M)	2 (LOG) 10 (M)	3 (L)	- cdx	2 (O) - cdx	- cdx	2	2	-
	WHP	Exporters should test for dithiocarbamates to ensure that MRLs are met														
sulfur	MRL	Exempt	-	-	-	Exempt	-	-	-	-	Exempt	-	-	-	-	Exempt
	WHP															
zineb	MRL	7	10 (M) 2 (O)	-	5 (O, M)	5	4 (GLO) 10 (M)	2 (O) 10 (M)	2 (LOG) 10 (M)	3(L)	- cdx	2 (O) - cdx	- cdx	Prohibited	2	-
	WHP	Exporters should test for dithiocarbamates to ensure that MRLs are met														

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Fungicides applied post-harvest		Australia & NZ	Codex	Canada	China	EU	Hong Kong	Indonesia	Japan	Korea	Malaysia	Philippines	Singapore	Taiwan	Thailand	USA
Post-harvest fungicides																
<i>Withholding periods do not apply to post-harvest treatments</i>																
2-phenylphenol (Preventol)	MRL	10	10 (Proposed deletion)	? Erroneous	10	10	12	10	10	-	-	- cdx	- cdx	10	- cdx	10
fludioxonil (Scholar)	MRL	10	10	10	10	10	10	10	10	10	- cdx	- cdx	- cdx	7, 5(G)	- cdx	10
guazatine (Panoctine)	MRL	5	5	-	3 (M)	0.05	-	5	-	-	- cdx	- cdx	- cdx	5	- cdx	-
imazalil (Fungaflor)	MRL	10	8 (O) 15 (L) 5 (MG)	5	5 (M,O, L)	4 (O,G) 5 (L,M)	10	5	5	15	- cdx	- cdx	5	5	- cdx	10
propiconazole (Chairman)	MRL	7	10 (LLMO) 4 (G)	8	10 (O, M, L)	0.01	-	-	8	8	- cdx	- cdx	9 (O)	4	- cdx	8
pyrimethanil (Philabuster)	MRL	10	7	10	7	8	10	7	10	7	- cdx	- cdx	7 (O)	7	- cdx	10
thiabendazole (Tecto)	MRL	10	7	10	10	7	10	7	10	7	- cdx	- cdx	10	10	- cdx	10

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Herbicides		Australia & NZ	Codex	Canada	China	EU	Hong Kong	Indonesia	Japan	Korea	Malaysia	Philippines	Singapore	Taiwan	Thailand	USA
Herbicides																
2,2-DPA (Atlapon)	MRL	0.1	-	-	-	0.01	-	-	-	-	-	-	-	-	0.01 (Default limit)	-
	WHP	7 days														
amitrole (Amitrole T)	MRL	0.01	-	-	-	0.01	-	-	-	-	-	-	-	-	Banned	-
	WHP	56 days														
bromacil (Hyvar)	MRL	0.04	-	-	0.1	-	0.1	-	0.1	-	-	-	0.04	0.5	0.01 (Default limit)	0.1
	WHP	Withholding period not required when used according to label directions														
carfentrazone (Hammer)	MRL	0.05	-	-	-	0.02	0.1	-	0.1	-	-	-	-	0.1	0.01 (Default limit)	0.1
	WHP	N/A														
dichlobenil (Casoron G)	MRL	0.1	-	-	-	0.01	-	-	-	0.15	-	-	-	-	0.01 (Default limit)	-
	WHP	N/A														
diquat (Reglone)	MRL	0.05	0.02	-	-	0.02	-	-	0.02	-	- cdx	- cdx	-	-	- cdx	0.05
	WHP	N/A														N/A
fluazifop-butyl (Fusilade)	MRL	0.02	0.01	0.03	0.01	-	-	-	0.05	-	- cdx	- cdx	-	-	- cdx	0.03
	WHP	N/A														
flumioxazin (Chateau)	MRL	0.05	-	-	0.05 (O, M)	0.02	-	-	0.1	-	-	-	-	-	0.01 (Default limit)	0.02
	WHP	98 days														
glufosinate (Basta)	MRL	0.1	0.05	0.1	0.5 (M,O) 0.05 (G,L)	0.05	0.1	0.05	0.2	0.05	0.1	- cdx	-	0.1	- cdx	0.15
	WHP	N/A														
glyphosate (Roundup)	MRL	0.5	-	-	0.5 (M,O) 0.1 (GL)	0.5 (O,M) 0.1 (L,G)	0.5	-	0.5	0.05	0.2	-	-	0.1	0.01 (Default limit)	0.5
	WHP	N/A														

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Herbicides		Australia & NZ	Codex	Canada	China	EU	Hong Kong	Indonesia	Japan	Korea	Malaysia	Philippines	Singapore	Taiwan	Thailand	USA
Herbicides (continued)																
haloxyfop (Exert 520)	MRL	0.05	0.02	-	-	0.01	0.02	0.02	0.05	-	- cdx	- cdx	-	0.1	- cdx	-
	WHP	N/A														
isoxaben (Gallery)	MRL	0.01	-	-	-	0.02	-	-	-	-	-	-	-	-	0.01 (Default limit)	-
	WHP	WHP not required when used as directed														
norflurazon (Zoliar)	MRL	0.2	-	-	-	-	0.2	-	0.2	-	-	-	-	0.2	0.01 (Default limit)	0.2
	WHP	N/A														
Oryzalin (Surflan)	MRL	0.1	-	-	-	0.01	0.05	-	0.08	-	-	-	-	-	0.01 (Default limit)	0.05
	WHP	N/A														
paraquat (Gramoxone)	MRL	0.05	0.02	-	0.02 (O,G,L) 0.2 (M)	0.02	0.02 (GLO) 0.2(M)	0.02	0.05	-	- cdx	0.02	0.05	0.2 (proposed deletion)	Banned (avoid)	0.05
	WHP	N/A														
pendimethalin (Stomp)	MRL	0.05	0.03	-	0.03	0.05	-	-	0.03	0.05	- cdx	- cdx	-	0.01	- cdx	0.1
	WHP	N/A														
saflufenacil (Sharpen)	MRL	0.03	0.01	0.03	0.05 (O, M) 0.01 (G, L)	0.03	-	0.01	0.03	0.03	- cdx	- cdx	-	0.03	0.01 (Default limit)	0.03
	WHP	N/A														
simazine (Gesatop)	MRL	0.1	-	-	-	0.01	0.25 (O)	-	0.1 (M) 0.2 (GOL)	0.25	-	-	-	-	0.01 (Default limit)	0.25 (GOL)
	WHP	N/A														
trifluralin (Treflan)	MRL	0.05	-	-	-	0.01	0.05	-	0.05	0.05	-	-	-	0.05	0.01 (Default limit)	0.05
	WHP	N/A														

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CITRUS MAXIMUM RESIDUE LIMITS

For agricultural chemicals registered for use on Australian oranges, grapefruit, mandarins and lemons, for domestic and export markets. Updated 1 September 2022

Chemical - Plant Growth Regulators		Australia & NZ	Codex	Canada	China	EU	Hong Kong	Indonesia	Japan	Korea	Malaysia	Philippines	Singapore	Taiwan	Thailand	USA
Plant Growth Regulators																
2,4 – D (Stop Drop)	MRL	5	1	2	0.05	1	1	1	3	0.15(O) 1 (L)	- <i>cdx</i>	1	2	2	- <i>cdx</i>	3
	WHP															
dichlorprop-P (Corasil)	MRL	0.2	-	-	-	0.3	-	-	0.2	-	-	-	-	-	0.01 (Default limit)	-
	WHP															
ethephon (Ethrel)	MRL	2 (MO)	-	1	-	0.05	-	-	2	2 (L)	-	-	-	-	0.01 (Default limit)	-
	WHP															
gibberellins (GA4/GA7)	MRL	Exempt	-	-	-	Exempt	-	-	0.2	-	-	-	-	-	-	Exempt
	WHP															
triclopyr (Tops Plant Growth Regulator)	MRL	0.2	-	-	-	0.1	-	-	0.1	-	-	-	-	-	0.01 (Default limit)	-
	WHP															

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