

Apple and Pear Maximum Residue Limits – February 2017

The information contained in this document is provided as guidance as an aid to help ensure compliance with maximum residue limits (MRLs) in countries, as listed, to which citrus fruit are exported. However, No absolute guarantee can be given that export MRLs will not be exceeded in all instances. It is therefore strongly recommended that this information be used in conjunction with residue monitoring to avoid violative residues.

Active ingredient ¹	Australia ²	Codex ⁴	Canada ³	China	European Union ⁵	Hong Kong ¹²	Indonesia ⁶	Japan ⁷	Malaysia ⁸	Singapore ⁹	Thailand
1-methylcyclopropene	Not required	not set	0.01	not set	*0.01	Not set	not set	0.01	not set	not set	not set
2,4-D	*0.05 (P)	*0.01	0.05	0.01	*0.05	0.01	not set	0.01	not set	not set	not set
6-benzyladenine	0.2 (A), T 0.2 (P)	not set	not set	not set	0.01	Not set	not set	0.05(A)	not set	not set	not set
Abamectin	0.01	0.01	0.02	0.02	0.03	0.02	0.02	0.02	not set	not set	not set
Aminoethoxyvinylglycine	0.1 (A)	not set	0.08 (A)	not set	not set	0.08	not set	0.09 (A), 0.08 (P)	not set	not set	not set
Ammonium thiosulfate	Not required	not set	not set	not set	not set	Not set	not set	not set	not set	not set	not set
Azinphos-methyl	1	0.05 (A), 2 (P)	2	2	*0.05	0.05 (A) 2 (P)	0.05	not set	not set	1	not set
Bifenazate	2	0.7	0.6 (A)	0.2 (A) 0.7 (P)	0.7	Not set	not set	2	not set	not set	not set
Bifenthrin	*0.05 (A), 0.5 (P)	not set	0.9 (P)	0.5	0.3 ^a	0.5	not set	1 (A), 0.5 (P)	not set	not set	0.05
Boscalid	2	2 (A)	3	2 (A)	2(A) 1.5 (P)	3	2(A)	2 (A) 3 (P)	not set	not set	not set
Bupirimate	1 (A)	not set	Not set	not set	0.2 (A,P)	Not set	not set	0.8 (A), 0.5 (P)	not set	not set	not set
Buprofezin	0.2(P)	3 (A), 6 (P)	3(A) 6 (P)	not set	3 (A) 0.5 (P)	3 (A), 6 (P)	3 (A) 6 (P)	3 (A) 6 (P)	not set	not set	not set
Captan	10	15	5	15	10 ^b	15	not set	5 (A), 25 (P)	not set	25	not set

^a EU MRL proposal of *0.01 mg/kg G/SPS/N/EU/161/Add.1

^b EU residue definition changed to Captan (Sum of captan and THPI, expressed as captan) Approval of the active will expire on 31 July 2018

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Carbaryl	0.2 ^c	not set	5	not set	*0.01	12	not set	1 (A), 5 (P)	not set	5	not set
Carfentrazone	*0.05	not set	0.1	not set	*0.01	0.1	not set	0.1	not set	not set	not set
Chlorantraniliprole	0.3	0.4	0.4	2 (A) 0.4 (P)	0.5	1.2	not set	1	not set	not set	not set
Chlorfenapyr	0.5	not set	not set	not set	*0.01	Not set	not set	2 (A), 1 (P)	not set	not set	not set
Chlorpyrifos	T0.5	1	0.01 (A)	1	*0.01	1	not set	1 (A), 0.5 (P)	not set	1.0 (A), 0.5 (P)	not set
Clofentezine	0.1	0.5	0.5	0.5	0.5	0.5	not set	1 (A), 0.5 (P)	not set	not set	not set
Clothianidin	T2	0.4	0.3	not set	0.4	Not set	not set	1	not set	not set	not set
Copper	10	not set	not set	not set	5		not set	Not required	not set	not set	not set
Cyanamide	*0.02 (A) *0.1 (P ^d)	not set	not set	not set	*0.01	Not set	not set	not set	not set	not set	not set
Cypermethrins	1	0.7	1 (A), 0.5 (P)	2	1	2	not set	2	2	2	0.02
Cyprodinil	0.05	2	1.7	1(P)	2	1.7	0.05 (A) 1 (P)	5	not set	not set	not set
Diazinon	0.5	0.3	0.75	0.3	*0.01	0.5	not set	0.1	not set	0.5	not set
Dicofol	5	not set	3	1	*0.02	1	not set	3	not set	5	not set
Difenoconazole	0.3	0.8	5	0.5	0.8	1	not set	0.8	not set	not set	not set
Diphenylamine	10 (A), 7 (P)	10 (A), 5 (P)	5 (A)	5	0.1	10 (A) 7 (P)	10 (A), 5 (P)	10 (A), 5 (P)	not set	5	not set
Diquat	*0.05	*0.02	0.02	0.1 (A)	0.02	Not set	not set	0.03	not set	not set	not set

^c APVMA Control of Use MRL, FSANZ Food Code MRL set at 5 mg/kg

^d Nashi pear

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Active ingredient ¹	Australia ²	Codex ⁴	Canada ³	China	European Union ⁵	Hong Kong ¹²	Indonesia ⁶	Japan ⁷	Malaysia ⁸	Singapore ⁹	Thailand
Dithianon	2	1	not set	5 (A) 2 (P)	3	5	not set	2 (A) 5 (P)	not set	not set	not set
Dodine	5	5	5	5 ^c	0.9	5	not set	5	not set	5	not set
Ethephon	1 (A)	0.8 (A)	3 (A)	5(A)	0.6 (A), *0.05 (P)	5 (A)	5 (A)	5 (A), 3 (P)	not set	not set	1 (A)
Etoxazole	0.2	0.07	0.2	not set	0.07	0.2	not set	0.5	not set	not set	not set
Fenarimol	0.2	0.3	not set	0.3	0.1	0.3	not set	1	not set	not set	not set
Fenbutatin oxide	3	5	3	5	2	15	not set	5	not set	5	not set
Fenitrothion	1	0.5 (A)	not set	0.5	*0.01	0.5	0.5 (A)	0.2	not set	2.0 (A), 0.5 (P)	not set
Fenoxycarb	2	not set	not set	not set	1	Not set	not set	2	not set	not set	not set
Fenpyroximate	0.3	0.3	0.3	0.3(A)	0.3	0.3	not set	0.5 (A), 1 (P)	not set	not set	not set
Flonicamid	0.7 (A)	0.8 ^f	0.2	1(A) ^g	0.3	0.2	not set	1(A) 0.5 (P)	not set	not set	not set
Fluazifop-P	*0.01	*0.01 ^c	not set	not set	*0.01	Not set	not set	0.1	not set	not set	not set
Fluazinam	*0.01	not set	2 (A)	not set	0.3 (A) *0.05 (P)	2 (A), 0.5 (P)	not set	0.5	not set	not set	not set
Fludioxonil	5	5	5	not set	5	5 (A) 0.7 (P)	not set	5	not set	not set	not set
Fluopyram	0.5	0.5	0.8	not set	0.6 (A) 0.5 (P)	Not set	not set	1 (A) 3 (P)			not set
Fluquinconazole	0.3	not set	not set	not set	0.1 (A), 0.2 (P)	Not set	not set	0.05	not set	not set	not set

^c The limit is temporary

^f MRL Recommendation to be considered by 2017 Codex Committee on Pesticide Residues

^g The limit is temporary

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Fluvalinate	0.1 (A)	not set	not set	not set	0.3	Not set	not set	0.5 (A), 2 (P)	not set	not set	not set
Fosetyl	1 (A)	not set	1 (A)	30 (A)	75	10	not set	75 (A), 50 (P)	not set	not set	not set
Gibberellins	not required	not set	not set	not set	not required ^h	not set	not set	0.2	not set	not set	not set
Glufosinate	*0.1	0.1	0.2	not set	0.1	0.05	not set	0.2 (A) 0.1(P)	not set	not set	not set
Glyphosate	*0.05	not set	not set	0.5 (A) 0.1 (P)	*0.1	0.5 (A) 0.2 (P)	not set	0.2	not set	not set	not set
Haloxypop-R	*0.05	0.02	not set	0.02	*0.01	0.02	not set	0.05	not set	not set	not set
Hexaconazole	0.1	not set	not set	0.5	*0.01	Not set	not set	0.5	not set	not set	not set
Hexythiazox	1	0.4	0.4	0.5	1	0.5 (A) 1 (P)	not set	1	not set	not set	not set
Imazalil	5	5	not set	5	2	5	not set	5	not set	not set	not set
Imidacloprid	0.3 (A)	0.5 (A), 1 (P)	0.6	0.5 (A)	0.5	0.5 (A) 1 (P)	0.5 (A), 1 (P)	0.5 (A), 0.7 (P)	not set	not set	not set
Indoxacarb	2	0.5 (A), 0.2 (P)	not set	not set	0.5	1 (A) 2 (P)	0.5 (A) 0.2 (P)	0.5 (A) 0.2 (P)	not set	not set	not set
Iprodione	3	5	not set	5	6	5	not set	10	not set	10	not set
Isoxaben	*0.01	not set	not set	not set	0.05	Not set	not set	not set	not set	not set	not set
Kresoxim-methyl	0.1	0.2	0.5	0.2 (A)	0.2	0.2	not set	5	not set	not set	not set
Malathion	2 (A), 0.5 (P)	0.5 (A)	2	2	*0.02	8	0.5 (A), 0.5 (P)	0.5	not set	2.0 (A)	not set
Mancozeb	3	5	7	5	5	7 (A), 10(P)	not set	5	not set	3	not set
Metaldehyde	1	not set	not set	not set	*0.05	Not set	not set	0.01	1	not set	

^h EU MRL of 5 mg/kg for Gibberellic acid

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methidathion	0.2	0.5 (A), 1 (P)	0.5	0.05	0.03	0.5 (A) 1 (P)	0.5 (A) 1(P)	0.5 (A), 1 (P)	not set	0.2	0.1 (A) 0.2 (P)
Methomyl	1 (A), 3 (P)	0.3	0.5 (A) ⁱ	0.2	*0.02	2 (A) 0.3 (P)	0.3	3	not set	5 (A)	0.3
Methoxyfenozide	0.5	2	1.5	3(A)	2	3 (A) 2 (P)	not set	2	not set	not set	not set
Metiram	3	5	7	Not set	5	7 (A), 10(P)	not set	5	not set	3	not set
Milbemectin	0.03	not set	not set	not set	*0.02	not set	not set	0.2	not set	not set	not set
Myclobutanil	0.5	0.6	0.5	0.5	0.6	0.5	not set	0.5 (A), 0.7 (P)	not set	not set	not set
NAA	1	not set	not set	0.1(A)	1	0.15	not set	0.5 (A), 0.3 (P)	not set	not set	not set
Norflurazon	*0.2	not set	not set	not set	not set	0.1	not set	0.1	0.1	not set	not set
Novaluron	T1	3	2	3	2 (A) 3 (P)	3	not set	3	not set	not set	not set
Oryzalin	0.1	not set	not set	not set	*0.01	0.05	not set	0.08	not set	not set	not set
Oxyfluorfen	0.05	not set	not set	not set	0.1	0.05	not set	0.05	not set	not set	not set
Paclobutrazol	1	not set	not set	0.5(A)	0.5	0.5 (A) 1 (P)	not set	0.5 (A), 1 (P)	not set	not set	not set
Paraquat	*0.05	*0.01	0.05	0.05(A) 0.01 (P) ^j	*0.02	0.05	not set	0.05	not set	not set	not set
Penconazole	0.1	0.2	not set	0.2	0.2	0.2	not set	0.2	not set	not set	not set
Penthiopyrad	0.5	0.4	0.5	not set	0.5	Not set	not set	2 (A), 3 (P)	not set	not set	not set
Piperonyl butoxide	8	not set	8	not set	not set	8	not set	8	not set	8	not set

ⁱ Proposed for revocation in Canada

^j The limit is temporary

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Pirimicarb	0.5	1	0.5 (A)	1	0.5	1	not set	1	not set	1	not set
Prohexadione calcium	*0.02 (A)	not set	3 (A)	not set	0.1	3	not set	2	not set	not set	not set
Propargite	3	3.0 (A)	3 (A)	5	*0.01	5	3	5 (A)	not set	3	not set
prothiofos	0.05	not set	not set	not set	not set	Not set	not set	0.3 (A), 0.1 (P)	not set	not set	not set
pyraclostrobin	1	0.5(A)	1.5	0.5 (A)	0.5	0.5 (A) 1.5 (P)	0.5 (A)	1 (A), 2 (P)	not set	not set	not set
Pyrethrins	1	not set	1		1	1	not set	1	not required	1	not set
Pyridaben	0.5	not set	0.5 (A), 0.75 (P)	2 (A)	0.5	0.5 (A) 0.75 (P)	not set	1	not set	not set	not set
Pyrimethanil	7 ^k	15	14	7(A) 1(P)	15	14	not set	14	not set	not set	not set
Saflufenacil	*0.03	0.01	0.03	not set	*0.03	Not set	not set	0.03	0.01	not set	not set
Spinetoram	0.1	0.05	0.2	not set	0.2	0.05	not set	0.5	not set	not set	not set
Spinosad	0.5	0.1 (A)	0.2	0.1(A)	0.3	0.2 (A) 0.5(P)	0.1 (A)	0.5	not set	not set	not set
Spirotetramat	0.5	0.7	0.7	0.7	1	0.7	not set	0.7	not set	not set	not set
Sulfoxaflor	0.5	0.3	0.5	not set	0.4	Not set	not set	not set	not set	not set	not set
Sulphur	Not required	not set	not set	not set	Not required		not set	Not required	not set	not set	not set
Tebuconazole	*0.01	1	0.1	not set	0.3	0.5	1	1 (A) 5(P)	not set	not set	not set
Tebufenozide	1	1	1	1	1	1 (A) 1.5 (P)	not set	1	not set	not set	not set
Tebufenpyrad	1	not set	not set	not set	0.2	Not set	not set	0.5	not set	not set	not set
Tetradifon	5	not set	5	2(A)	*0.01	Not set	not set	1	not set	not set	not set
Thiabendazole	10	3	10	3	5	3	not set	3	not set	10	0.1

^k FSANZ Food Code MRL. APVMA Control of Use MRL is set at T15 mg/kg

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Thiacloprid	1	0.7	0.3	0.7	0.3	0.7 (A) 1 (P)	not set	2	not set	not set	not set
Thiram	3	5	7	5(A)	5	7 (A), 10(P)	not set	5	not set	3	not set
Triadimefon	1 (A)	0.3(A)	not set	1(A) 0.5 (P)	*0.2 (A), *0.1 (P)	0.3 (A)	0.3	0.5	not set	0.5	not set
trichlorfon	T0.1	not set	not set	0.2	*0.01	0.1	not set	2 (A), 0.5 (P)	not set	0.1	not set
Trifloxystrobin	0.3	0.7	0.5	0.7(A)	0.7	0.7	not set	3 (A), 5 (P)	not set	not set	not set
Triforine	1	not set	not set	2 (A)	*0.01	2 (A)	2 (A)	2	not set	2 (A)	not set
Ziram	3	5	7	5(A)	5	7 (A), 10(P)	not set	5	not set	7	not set

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Notes

- ¹ 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. The persistent organochlorines (DDT, dieldrin and lindane) are not registered for use. This table does not include many herbicides, pheromones and other solvents which are registered for use as they are considered to be at low risk of causing unacceptable residues in apples and pears
- ² AUSTRALIA: in the absence of a set MRL, zero tolerance applies.
- ³ CANADA The General MRL applies to foods that contain residues of agricultural chemicals (including pesticides) unless a specific MRL has been established. Regulation B.15.002(1) of the FDR establishes 0.1 ppm as the "General Maximum Residue Limit".
- ⁴ Many countries default to maximum residue limits established by CODEX in the absence of a domestic MRL.
- ⁵ EUROPEAN UNION: Has a default value of 0.01 mg/kg in the event of no MRLs listed.
- ⁶ INDONESIA: PERATURAN MENTERI PERTANIAN REPUBLIK INDONESIA NOMOR 55/Permentan/KR.040/11/2016. May reference Codex if there is no national MRL.
- ⁷ JAPAN - has set a general limit if there is no MRL set indicating the amount unlikely to cause damage to human health that the provision of Paragraph 3, Article 11 of the Food Sanitation Law requires the Minister to set is 0.01 ppm.
- ⁸ MALAYSIA: For those values listed as 'not set', refer to the corresponding Codex value. If no Codex MRL exists a default MRL of 0.01 mg/kg then applies.(Regulation 41).
- ⁹ SINGAPORE: In the absence of a set MRL, default to the Codex level.
- ¹⁰ THAILAND: As per THAI Agricultural Standard TAS 9002-2016. Reference Codex if there is no national MRL. If no Codex MRL default of 0.01 mg/kg applied
- ¹¹ * MRL or EMRL is set at or about the limit of quantitation
- ¹² **Hong Kong** - The Pesticide Residues in Food Regulation (Cap. 132CM) came into operation on 1 August 2014.
- ¹³ China MRL as contained in GB 2763-2016 National Food Safety Standard, which is understood to come into effect June 2017.

'A' Apple

'P' Pear

Otherwise refers to both.

'not set' denotes that no MRL has been established, refer to details above for each countries default value.

'NR - not required' denotes that no MRL has been established, and any detection is permissible.

'T' denotes that the MRL residue definition or use is temporary to enable further experimental work to be carried out in Australia or overseas, and will be reconsidered at some further date. This symbol is also used in cases where the MRL is being phased out.

'E' Extraneous MRL (Australia) means the maximum permitted limit of a pesticide residue, arising from environmental sources other than the use of a pesticide directly or

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indirectly on the food, expressed in milligrams of the chemical per kilogram of the food (mg/kg).

This table has been compiled with reference to the information obtained from the following Food/Agricultural Authorities or publications:

Australia - Australian Pesticides and Veterinary Medicines Authority (APVMA), FSANZ

Canada - List of Maximum Residue Limits Regulated Under the Pest Control Canadian MRLs

Codex - Codex Alimentarius Commission. FAO/WHO Food Standards Codex Alimentarius Pesticide Residues in Food - MRLs & Extraneous MRLs

European Union - The EU pesticide residues database provides for a search tool for all the EU-MRLs set in Reg. (EC) No 396/2005. Updated 7/02/2017

Hong Kong – Hong Kong Centre for Food Safety

Indonesia - Maximum Limits of Pesticide Residues in Agricultural Products - NOMOR 55/Permentan/KR.040/11/2016.

Japan - Positive List System for Agricultural Chemical Residues in Foods

Malaysia - Laws of Malaysia. Food (Amendment) Regulations 2004 available on the Ministry of Health Food Safety and Quality Division

THAI Agricultural Standard TAS 9002-2016