

Cutting Edge / Snykant

RESEARCH NEWS FROM CITRUS RESEARCH INTERNATIONAL
NAVORSINGSNUUS VAN CITRUS RESEARCH INTERNATIONAL

February / Februarie 2004

No. / Nr. 18

RECOMMENDED USAGE RESTRICTIONS FORON THE USE OF PLANT PROTECTION PRODUCTS ON SOUTHERN AFRICAN EXPORT CITRUS

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The purpose of these restrictions is to ensure compliance with residue tolerances in the countries to which Southern African citrus is exported. The recommendations on container labels are based on the **current registrations** of plant protection products. In terms of the SA Act 36 of 1947 (and equivalent legislation in neighbouring countries) the registration requirements must be adhered to at all times. However, the requirements of importing countries have made it necessary to introduce **further restrictions** in order to comply with maximum residue limits.

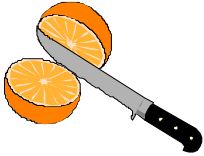
The active ingredients of the products are listed alphabetically together with an illustrative brand name. In the case of commodity products which may be sold under different brand names only a single name is shown for convenience. This does not imply endorsement of the particular brand concerned.

Due to the multiple fruit set pattern of lemons, plant protection products may only be used as specified during the first spring **blossoming and fruit set** period. Special caution should be exercised to ensure that pesticides applied to protect later sets do not result in unacceptable residues in fruit remaining on the trees from earlier sets.

The following general statements are applicable to the use of plant protection products on all cultivars:

* Growers should ensure that these restrictions are kept handy and are consulted before the application of plant protection products.

- * The application in accordance with current label requirements will in many instances not ensure that export requirements will be met. The restrictions specified are applicable in addition to the label requirements.
- * The withholding periods specified on product labels provide an indication of the ability of treatments to conform to South African residue levels. Since overseas requirements are generally more stringent these withholding periods are not adequate unless specifically mentioned in this document.
- * These restrictions apply to the period during which fruit is present on trees (between blossom and harvest) and not to the period between harvest and the onset of blossom, during which time standard label requirements apply.
- * All usages apply to normal blossom situations. Under conditions where blossoming occurs over an extended period a more conservative approach must be adopted. Under these conditions treatments should be timed according to the early portion of the blossom.
- * Particular attention must be given to ensuring that spray machinery is calibrated to apply the correct spray volumes in relation to tree size and that spray operators are trained in the handling and application of plant protection products.
- * All treatments referred to above must be applied at the registered concentrations.
- * Alternation of products, where applicable with reference to the restrictions, will reduce the risk of excessive residues of any one chemical and will also reduce selection pressure for resistance.
- * The additional restrictions in this document do not necessarily provide an indication of the compatibility of the products with integrated pest management and good agricultural practice.
- * The addition of oil to a treatment, if not registered as such, should be avoided as this may increase the residue level.



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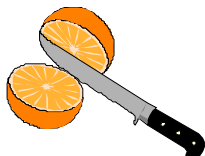
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All exporting growers should keep accurate spray records so that in the event of exceeding MRLs the reasons can be determined. These records should be retained in safe-keeping for at least 3 years.

Growers are strongly urged to abide by these restrictions to minimise the risk of residue tolerances being exceeded. However, it must be noted that **no absolute guarantee can be given that even by following these guidelines export residue tolerances will in all instances not be exceeded.**

This document has been compiled with information presently available and in good faith, but with the express condition that the authors, Citrus Research International, and Citrus Growers Association of Southern Africa accept no responsibility whatsoever for any loss or damage resulting directly or indirectly from the use thereof.



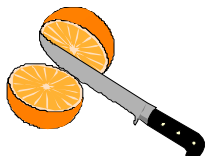
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PRODUCT	RESTRICTION			
	All markets except where other restrictions are specified	Other restrictions		
		Canada	U S A	Japan
acetamidprid/Mospilan	150d PHI as registered	-	-	-
Aldicarb/Temik	100d for lemons, other cultivars 150d PHI as registered	-	-	-
Amitraz/Mitac	Not later than 100% petal fall	150d PHI	-	28d PHI as registered
Avermectin/Agrimec	7d PHI as registered	-	-	-
Azinphos-methyl/Gusation	120d PHI	21d PHI as registered	21d PHI as registered	-
Azoxystrobin/Ortiva	77d PHI as registered	-	-	Not later than 100% petal fall
Bromopropylate/Acarol	Not later than 100% petal fall	21d PHI	-	21d PHI
Buprofezin/Applaud	45d PHI as registered	-	-	-
Cadusaphos/Rugby	0d PHI as registered	-	-	-
carbendazim (Bavistin, Bendazid, Knowin, Benomyl, Spotless Benomyl, thiophanate methyl)	14d PHI as registered, but not later than end-January when using Benomyl, Spotless or other benomyl formulations on fruit destined for EU.	-	-	-
Chlorfenapyr/Hunter	Before calyx closure (\pm 3 weeks after petal fall) as registered	-	-	-
chlorpyrifos/Dursban	60d PHI as registered for sprays as registered, 0d PHI for soil and stem applications as registered	Sprays may not be applied after 100% petal fall, 0d PHI for soil and stem applications as registered	-	-
Cyhexatin/Sipcatin	Only to be used after harvest and before the onset of blossom	-	14d PHI as registered	14d PHI as registered
Cypermethrin	28d PHI as registered	-	Not later than 100% petal fall	-
dicofol/Kelthane	14d PHI	-	-	-
Difenoconazole/Score	Not later than 100% petal fall as registered	-	-	-
Dimethoate/Rogor	Not later than 50% petal fall for sprays, Not later than white bud stage for soil applications	42d PHI as registered	42d PHI as registered	42d PHI as registered
Dithiocarbamates (Mancozeb/Maneb)	21d PHI	Not later than end December and only where packhouses have either a non-recycling high pressure spray or non-	Not permitted	Not later than end-January



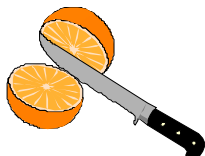
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		recycling Deccosol foam curtain and regular (twice daily) cleaning of brushes		
endosulfan/Thiodan	28d PHI	Not later than 100% petal fall	Not later than 100% petal fall	-
Ethoprophos/MOCAP	0d PHI as registered	-	-	-
fenamiphos/Nemacur	150d PHI as registered	-	-	-
Fenazaquin	56d PHI as registered	-	-	-
Fenbutatin-oxide/Torque	7d PHI as registered	-	-	-
Fenpropathrin/Meothrin	185d PHI, except for fruit destined for UK, Spain, Italy and Belgium where '28d PHI as registered' applies 185d PHI (take note of recent registration changes)	-	28d PHI as registered	28d PHI as registered
Fenpropathrin + phenthoate/Meothrin + Elsan	Not later than 90% petal fall	-	-	-
fipronil/Regent	Before calyx closure (\pm 3 weeks after petal fall) as registered	-	-	-
Formetanate/Dicarzol	90d PHI, only 25g Dicarzol + 200g sugar per 100l as a bait spray, up to three times between petal fall and the end of January.	-	-	-
fosetyl-AI/Aliette	0d PHI as registered	-	-	-
Fosthiazate/Nemathorin	43d PHI as registered	-	-	-
Guazatine	Post-harvest as registered	Not permitted	Not permitted	Pre-packhouse only
Imazalil	Post-harvest as registered	-	-	-
Imidacloprid/Confidor	212d PHI as registered	-	-	-
Iprodione/Rovral	115d PHI, only for use on soft citrus	-	Not later than 100% petal fall	-
Isazophos/Miral	56d PHI as registered	-	-	-
Kresoxim-methyl/Stroby	Not later than 100% petal fall	-	-	56d PHI
mercaptotion/Malathion (fruit fly baiting only)	7d PHI	14d PHI	-	-
Metalaxyl M/Ridomil Gold	30d PHI as registered	-	-	-
Methamidophos/Citrimet	21d PHI as registered	-	60d PHI	60d PHI
Methidathion/Ultracide	56d PHI as registered	-	-	-
Methiocarb/Mesurol	42d PHI as registered and n Not later than the end of January	-	60d PHI and n Not later than end January	-
Methomyl/Lannate	28d PHI for all registered usages	-	-	-
methyl-parathion/Pennacap	Not later than 50% petal fall	-	-	-



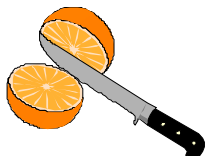
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Mevinphos	3d PHI as registered	-	28d PHI	-
Monocrotophos/Azodrin	42d PHI	-	90d PHI	-
Omethoate/Folimat	Apply no more than once in a season, <u>and</u> not later than beginning of December <u>and ensure at least -with- a 150d PHI</u>	-	-	-
Paecilomyces lilacinus/PL+	0d PHI as registered	-	-	-
Parathion/Parathion	Not later than 50% petal fall	Not later than 4 weeks after petal fall	-	Not later than 4 weeks after petal fall
Phenthoate/Elsan	Not later than 90% petal fall	-	-	-
phosphorous acid	0d PHI as registered	-	-	-
Pirimicarb/Aphox	Not later than 100% petal fall	-	-	-
Prochloraz	Post-harvest as registered	Not permitted	Not permitted	Oranges only
Profenofos/Selecron	Between blossom and harvest, use Seleccion only once and not more than 100m ^l /100 ^l water at not later than 90% petal fall	-	-	-
Propargite/Omite	14d PHI as registered	-	-	-
Prothiofos/Tokuthion	Between blossom and harvest, prothiofos should be used only once and not later than 100% petal fall	-	-	-
Pyraclostrobin/Cabrio	82d PHI as registered	-	-	-
pyriproxyfen/Nemesis	90d PHI as registered	-	-	-
Sodium ortho-phenyl-phenol	Post-harvest as registered	-	-	-
Spinosad/Tracer, <u>GF120</u>	<u>1d PHI as registered for fruit fly baiting (GF120), but 60d PHI Not later than end October-as registered for other applications (Tracer)</u>	-	-	-
Spirodiclofen/Envidor	Not later than mid-January	-	-	-
Tartar emetic/Tartox	30d PHI as registered	-	-	-
Tau-fluvalinate/Klartan	43d PHI and n Not later than mid-November as registered	-	-	-
tebuconazole/Horizon	Not later than 100% petal fall as registered	-	-	-
teflubenzuron/Nomolt	30d PHI as registered	-	Not permitted	-
Temephos/Abate	200d PHI	-	-	-
Terbufos/AC92-100/Counter	30d PHI as registered and not to be used between December and 1 April	-	-	-
Tetradifon/Tedion	15d PHI	-	-	Not later than 100% petal fall
Thiabendazole	Post-harvest as registered	-	-	-
Thiacloprid/Calypso	No later than 3 weeks after petal-fall	-	-	-



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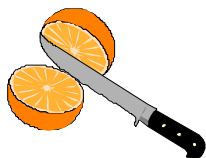
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Thiophanate-methyl/Topsin	14d PHI as registered and n Not later than the end of December	-	Not later than 100% petal fall	-
Trichlorfon/Dipterex	10d PHI as registered	-	28d PHI	-
Trifloxystrobin/Flint	Only on Valencias & not later than mid-January as registered	Not later than mid-January as registered	Not later than mid-January as registered	-
Triflumuron/Alsystin	30d PHI as registered	-	Not permitted	-
2,4-D	Post-harvest, not more than 250ppm in a packhouse treatment and not more than 250ppm in a pre-degreening drench	Post-harvest as registered	Post-harvest as registered	Post-harvest as registered
<u>3,5,6 TPA / Maxim</u>	<u>120 d PHI as registered</u>	-	-	-

PHI = Pre-harvest interval.

- = as for "all markets", that is no additional restrictions apply



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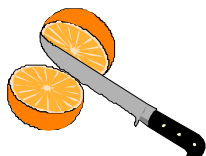
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SUMMARY TABLE OF RESIDUE TOLERANCES

Chemical	RSA	Codex	General export tolerance Default export dispensation level	Canada	USA	Japan
Acetamiprid	0.2	None	0.5	0.1	0.5	5.0
Aldicarb	0.2	0.2	0.2	0.1	0.3	0.3
Amitraz	0.2	0.5 ⁷	0.02	0.1	None	0.5
Avermectin	0.01	None	0.01	0.02	0.02	None
Azinphos-methyl	2.0	10.0	1.0	2.0	2.0	1.0
Azoxystrobin	0.5	None	1.0	0.1	1.0	None
Bromopropylate	3.0	2.0	0.05	2.0	None	2.0
Buprofezin	0.05	None	0.2	0.1	2.0	None
Cadusafos	0.05	None	0.01	0.1	None	None
Carbendazim	5.0	10.0	5.0	10.0	10.0	10.0
Chinomethionat	0.5	0.5	0.3	0.1	0.5	0.5
Chlorfenapyr	0.01	None	0.01	0.1	None	None
Chlorpyrifos	0.3	1.0	2.0 ¹⁰ , 0.3 ¹¹ , 0.2 ²⁰	0.1	1.0	0.3
Cyhexatin	2.0	2.0	0.2	0.1	2.0	2.0
Cypermethrin	0.2	2.0	2.0	1.0	None	2.0
Dicofol	5.0	5.0	2.0	5.0	10.0	5.0
Difenoconazole	None	None	0.02	0.1	None	None
Dimethoate	2.0	2.0	0.02	1.5	2.0	2.0
Dithiocarbamate	3.0	2.0 ⁷ , 10.0 ¹³	5.0	0.1	None	2.0 ⁷ , 10.0 ¹³ , 1.0 ¹¹
Endosulfan	1.0	2.0	0.5	0.1	None	2.0
Ethoprophos	0.05	None	0.01	0.1	None	None
Fenamiphos	0.05	0.5 ⁷	0.02 ⁵	0.1	0.6	None
Fenazaquin	0.05	None	0.05	0.1	None	None
Fenbutatin-oxide	1.0	5.0	5.0	2.0	20.0	5.0
Fenpropathrin	0.5	None	0.5 ⁴	0.1	2.0	5.0
Fipronil	None	None	0.02	0.1	None	None
Formetanate	0.5	None	0.05	4.0	4.0	None
Fosetyl-AI	15.0	None	0.2	0.1	5.0	50.0
Fosthiazate	0.5	None	0.01	0.1	None	None
Guazatine	5.0	None	5.0	0.1	None	1.0
Imazalil	5.0	5.0	5.0	5.0	10.0	5.0
Imidacloprid	0.5	None	0.5	1.0	0.7-1.0	None
Iprodione	1.0	None	5.0 ²⁰ , 2.0 ¹⁰ , 0.02 ¹¹	0.1	None	10.0
Isofenphos	0.2	None	0.05	0.1	None	2.0
Kresoxim-methyl	None	None	0.05	0.1	None	10.0



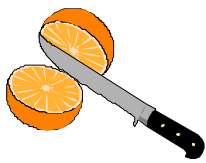
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Mercaptothion	4.0	4.0	2.0	0.1	8.0	4.0
Metalaxyl M	0.5	5.0	0.5	5.0	1.0	5.0
Chemical	RSA	Codex	Default export dispensation level	Canada	USA	Japan
Methamidophos	0.2	None	0.2	0.1	None	None
Methidathion	2.0	2.0	2.0	2.0	2.0	2.0
Methiocarb	0.1	0.05	0.05	0.1	0.02	0.05
Methomyl	0.2	1.0	0.5	1.0	2.0	1.0
Methyl-parathion	None	None	0.02 0.2	None	None	0.2
Mevinphos	0.1	0.2	0.2	0.2	None	0.2
Monocrotophos	0.1	0.2	0.05	0.1	None	0.2
Omethoate	2.0	None	0.02	1.5	None	None
Parathion	0.5	0.5	0.05	1.0	None	0.5
Phenthoate	1.0	None	0.015	0.1	None	None
Phosphorous acid	None	None	0.2	0.1	None	None
Pirimicarb	0.5	0.05, 0.5 ⁷	0.05	0.1	None	0.05
<u>Paecilomyces lilacinus</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>	<u>None</u>
Prochloraz	2.0	5.0 ⁷	10.0	0.1	None	5.0
Procymidone	0.2	None	0.02	0.1	None	0.02
Profenofos	1.0	1.0 ⁷	0.02	0.1	None	1.0
Propargite	2.0	5.0	2.0	5.0	5.0	5.0
Prothiofos	0.05	None	0.02	0.1	None	0.1
Pyraclostrobin	0.1	None	0.05	0.1	0.7	None
Pyriproxyfen	0.2	0.5 None	0.05	0.1	0.3	0.5
SOPP	10.0	10.0	10.0	10.0	10.0	10.0
Spinosad	0.05	None	0.05	0.1	0.3	None
Spirodiclofen	0.1	None	0.02	0.1	None	None
Tartar emetic (antimony)	13.0	None	13.0	0.1	3.5	None
Tau-Fluvalinate	1.0	None	0.05	0.1	None	2.0 None
Tebuconazole	0.02	None	0.05	0.1	None	None
Teflubenzuron	0.5	None	0.05	0.1	None	1.0
Temephos	1.0	None	0.01	0.1	None	None
Terbufos	0.1	None	0.01	0.1	None	None
Tetradifon	5.0	None	1.0	2.0	2.0	None
Thiabendazole	6.0	10.0	5.0	10.0	10.0	10.0
Thiacloprid	None	None	0.02	0.1	None	None
Thiophanate-Methyl	5.0	10.0	5.0	10.0	10.0	10.0
Triazophos	2.0	None	0.02	0.1	None	None
Trichlorfon	0.1	None	0.5	0.1	None	0.1



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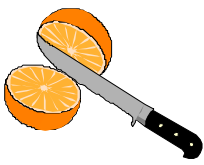
Trifloxystrobin	0.1	None	0.02	0.1	0.3	None
Triflumuron	0.5	None	0.5	0.1	None	None
2,4-D	5.0	2.0	1.0	2.0	5.0	2.0
<u>3,5,6 TPA</u>	<u>0.1</u>	<u>None</u>	<u>0.1</u>	<u>0.1</u>	<u>None</u>	<u>None</u>

NOTES

Superscripts:

- 1 - fruit without peel/pulp
- ~~12~~ - just oranges
- ~~13~~ - exocarp of summer oranges
- ~~14~~ - fruit (except exocarp of summer oranges)
- ~~15~~ - just peel
- ~~16~~ - except mandarin oranges
- ~~17~~ - Oranges, sweet, sour
- ~~18~~ - Citrus pulp, dried
- ~~19~~ - Whole fruit
- 10 - Clementines, mandarins
- ~~1011~~ - Other citrus
- ~~1012~~ - Except summer oranges
- ~~1013~~ - Mandarins
- ~~1014~~ - Pulp juice
- ~~1015~~ - No specific crop
- ~~1016~~ - Summer orange and mandarins
- ~~1017~~ - Summer orange, pulp and peel
- 18 - Summer orange, pulp
- ~~1819~~ - Only grapefruit
- ~~1820~~ - Only lemons
- ~~1821~~ - mandarins, limes and lemons
- ~~1822~~ - grapefruit, oranges and pommelos.

"None" = no MRL, therefore fruit must be free of detectable residue



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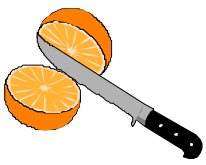
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- * The additional restrictions in this document do not necessarily provide an indication of the compatibility of the products with integrated pest management and good agricultural practice.
- * The addition of oil to a treatment, if not registered as such, should be avoided as this may increase the residue level.

All exporting growers should keep accurate spray records so that in the event of exceeding MRLs the reasons can be determined. These records should be retained in safe-keeping for at least 3 years.

Growers are strongly urged to abide by these restrictions to minimise the risk of residue tolerances being exceeded. However, it must be noted that **no absolute guarantee can be given that even by following these guidelines export residue tolerances will in all instances not be exceeded.**

This document has been compiled with information presently available and in good faith, but with the express condition that the authors, Citrus Research International, and



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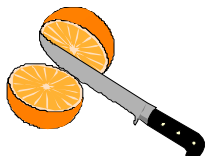
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**Citrus Growers Association of Southern Africa
accept no responsibility whatsoever for any**

**loss or damage resulting directly or indirectly
from the use thereof.**



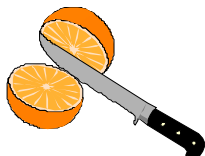
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PRODUCT	RESTRICTION			
	All markets except where other restrictions are specified	Other restrictions		
		Canada	U S A	Japan
acetamidrid/Mospilan	150d PHI as registered	-	-	-
Aldicarb/Temik	100d for lemons, other cultivars 150d PHI as registered	-	-	-
Amitraz/Mitac	Not later than 100% petal fall	150d PHI	-	28d PHI as registered
Avermectin/Agrimec	7d PHI as registered	-	-	-
Azinphos-methyl/Gusation	120d PHI	21d PHI as registered	21d PHI as registered	-
Azoxystrobin/Ortiva	77d PHI as registered	-	-	-
Bromopropylate/Acarol	Not later than 100% petal fall	21d PHI	-	21d PHI
Buprofezin/Applaud	45d PHI as registered	-	-	-
Cadusaphos/Rugby	0d PHI as registered	-	-	-
carbendazim (Bavistin, Bendazid, Knowin, Benomyl, Spotless)	14d PHI as registered, but not later than end-January when using Benomyl, Spotless or other benomyl formulations on fruit destined for EU.	-	-	-
Chlorfenapyr/Hunter	Before calyx closure (\pm 3 weeks after petal fall) as registered	-	-	-
chlorpyrifos/Dursban	60d PHI for sprays as registered, 0d PHI for soil and stem applications as registered	Sprays may not be applied after 100% petal fall, 0d PHI for soil and stem applications as registered	-	-
Cyhexatin/Sipcatin	Only to be used after harvest and before the onset of blossom	-	14d PHI as registered	14d PHI as registered
Cypermethrin	28d PHI as registered	-	Not later than 100% petal fall	-
dicofol/Kelthane	14d PHI	-	-	-
Difenoconazole/Score	Not later than 100% petal fall as registered	-	-	-
Dimethoate/Rogor	Not later than 50% petal fall for sprays, Not later than white bud stage for soil applications	42d PHI as registered	42d PHI as registered	42d PHI as registered
Dithiocarbamates (Mancozeb/Maneb)	21d PHI	Not later than end December and only where packhouses have either a non-recycling high pressure spray or non-	Not permitted	Not later than end-January



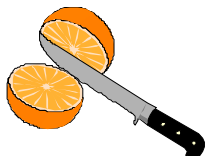
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		recycling Deccosol foam curtain and regular (twice daily) cleaning of brushes		
endosulfan/Thiodan	28d PHI	Not later than 100% petal fall	Not later than 100% petal fall	-
Ethoprophos/MOCAP	0d PHI as registered	-	-	-
fenamiphos/Nemacur	150d PHI as registered	-	-	-
Fenazaquin	56d PHI as registered	-	-	-
Fenbutatin-oxide/Torque	7d PHI as registered	-	-	-
Fenpropathrin/Meothrin	185d PHI, except for fruit destined for UK, Spain, Italy and Belgium where ' 28d PHI as registered' applies	-	28d PHI as registered	28d PHI as registered
Fenpropathrin + phenthoate/Meothrin + Elsan	Not later than 90% petal fall	-	-	-
fipronil/Regent	Before calyx closure (\pm 3 weeks after petal fall) as registered	-	-	-
Formetanate/Dicarzol	90d PHI, only 25g Dicarzol + 200g sugar per 100l as a bait spray, up to three times between petal fall and the end of January.	-	-	-
fosetyl-Al/Aliette	0d PHI as registered	-	-	-
Fosthiazate/Nemathorin	43d PHI as registered	-	-	-
Guazatine	Post-harvest as registered	Not permitted	Not permitted	Pre-packhouse only
Imazalil	Post-harvest as registered	-	-	-
Imidacloprid/Confidor	212d PHI as registered	-	-	-
Iprodione/Rovral	115d PHI, only for use on soft citrus	-	Not later than 100% petal fall	-
Isazophos/Miral	56d PHI as registered	-	-	-
Kresoxim-methyl/Stroby	Not later than 100% petal fall	-	-	56d PHI
mercaptothion/Malathion (fruit fly baiting only)	7d PHI	14d PHI	-	-
Metalaxyl M/Ridomil Gold	30d PHI as registered	-	-	-
Methamidophos/Citrimet	21d PHI as registered	-	60d PHI	60d PHI
Methidathion/Ultracide	56d PHI as registered	-	-	-
Methiocarb/Mesuroil	Not later than the end of January	-	Not later than end January	-
Methomyl/Lannate	28d PHI for all registered usages	-	-	-
methyl-parathion/Pennacap	Not later than 50% petal fall	-	-	-
Mevinphos	3d PHI as registered	-	28d PHI	-
Monocrotophos/Azodrin	42d PHI	-	90d PHI	-



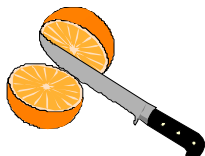
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Omethoate/Folimat	Apply no more than once in a season, not later than beginning of December and ensure at least a 150d PHI	-	-	-
Paecilomyces lilacinus/PL+	0d PHI as registered	-	-	-
Parathion/Parathion	Not later than 50% petal fall	Not later than 4 weeks after petal fall	-	Not later than 4 weeks after petal fall
Phenthoate/Elsan	Not later than 90% petal fall	-	-	-
phosphorous acid	0d PHI as registered	-	-	-
Pirimicarb/Aphox	Not later than 100% petal fall	-	-	-
Prochloraz	Post-harvest as registered	Not permitted	Not permitted	Oranges only
Profenofos/Selecron	Between blossom and harvest, use Seleccion only once and not more than 100ml/100l water at not later than 90% petal fall	-	-	-
Propargite/Omite	14d PHI as registered	-	-	-
Prothiofos/Tokuthion	Between blossom and harvest, prothiofos should be used only once and not later than 100% petal fall	-	-	-
Pyraclostrobin/Cabrio	82d PHI as registered	-	-	-
pyriproxyfen/Nemesis	90d PHI as registered	-	-	-
Sodium ortho-phenyl-phenol	Post-harvest as registered	-	-	-
Spinosad/Tracer, GF120	1d PHI as registered for fruit fly baiting (GF120), but 60d PHI as registered for other applications (Tracer)	-	-	-
Spirodiclofen/Envidor	Not later than mid-January	-	-	-
Tartar emetic/Tartox	30d PHI as registered	-	-	-
Tau-fluvalinate/Klartan	Not later than mid-November as registered	-	-	-
tebuconazole/Horizon	Not later than 100% petal fall as registered	-	-	-
teflubenzuron/Nomolt	30d PHI as registered	-	Not permitted	-
Temephos/Abate	200d PHI	-	-	-
Terbufos/AC92-100/Counter	30d PHI as registered and not to be used between December and 1 April	-	-	-
Tetradifon/Tedion	15d PHI	-	-	Not later than 100% petal fall
Thiabendazole	Post-harvest as registered	-	-	-
Thiacloprid/Calypso	No later than 3 weeks after petal-fall	-	-	-
Thiophanate-methyl/Topsin	Not later than the end of December	-	Not later than 100% petal fall	-
Trichlorfon/Dipterex	10d PHI as registered	-	28d PHI	-
Trifloxystrobin/Flint	Only on Valencias & not later than mid-	Not later than mid-January as	Not later than	-



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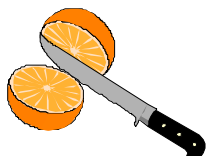
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	January as registered	registered	mid-January as registered	
Triflumuron/Alsystin	30d PHI as registered	-	Not permitted	-
2,4-D	Post-harvest, not more than 250ppm in a packhouse treatment and not more than 250ppm in a pre-degreening drench	Post-harvest as registered	Post-harvest as registered	Post-harvest as registered
3,5,6 TPA / Maxim	120 d PHI as registered	-	-	-

PHI = Pre-harvest interval.

- = as for "all markets", that is no additional restrictions apply



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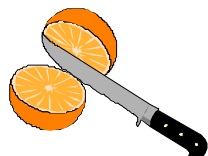
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SUMMARY TABLE OF RESIDUE TOLERANCES

<u>Chemical</u>	RSA	Codex	General export tolerance	Canada	USA	Japan
Acetamiprid	0.2	None	0.5	0.1	0.5	5.0
Aldicarb	0.2	0.2	0.2	0.1	0.3	0.3
Amitraz	0.2	0.5 ⁷	0.02	0.1	None	0.5
Avermectin	0.01	None	0.01	0.02	0.02	None
Azinphos-methyl	2.0	10.0	1.0	2.0	2.0	1.0
Azoxystrobin	0.5	None	1.0	0.1	1.0	None
Bromopropylate	3.0	2.0	0.05	2.0	None	2.0
Buprofezin	0.05	None	0.2	0.1	2.0	None
Cadusafos	0.05	None	0.01	0.1	None	None
Carbendazim	5.0	10.0	5.0	10.0	10.0	10.0
Chinomethionat	0.5	0.5	0.3	0.1	0.5	0.5
Chlorfenapyr	0.01	None	0.01	0.1	None	None
Chlorpyrifos	0.3	1.0	2.0 ¹⁰ , 0.3 ¹¹ , 0.2 ²⁰	0.1	1.0	0.3
Cyhexatin	2.0	2.0	0.2	0.1	2.0	2.0
Cypermethrin	0.2	2.0	2.0	1.0	None	2.0
Dicofol	5.0	5.0	2.0	5.0	10.0	5.0
Difenoconazole	None	None	0.02	0.1	None	None
Dimethoate	2.0	2.0	0.02	1.5	2.0	2.0
Dithiocarbamate	3.0	2.0 ⁷ , 10.0 ¹³	5.0	0.1	None	2.0 ⁷ , 10.0 ¹³ , 1.0 ¹¹
Endosulfan	1.0	2.0	0.5	0.1	None	2.0
Ethoprophos	0.05	None	0.01	0.1	None	None
Fenamiphos	0.05	0.5 ⁷	0.02	0.1	0.6	None
Fenazaquin	0.05	None	0.05	0.1	None	None
Fenbutatin-oxide	1.0	5.0	5.0	2.0	20.0	5.0
Fenpropathrin	0.5	None	0.5	0.1	2.0	5.0
Fipronil	None	None	0.02	0.1	None	None
Formetanate	0.5	None	0.05	4.0	4.0	None
Fosetyl-AI	15.0	None	0.2	0.1	5.0	50.0
Fosthiazate	0.5	None	0.01	0.1	None	None
Guazatine	5.0	None	5.0	0.1	None	1.0
Imazalil	5.0	5.0	5.0	5.0	10.0	5.0
Imidacloprid	0.5	None	0.5	1.0	0.7	None
Iprodione	1.0	None	5.0 ²⁰ , 2.0 ¹⁰ 0.02 ¹¹	0.1	None	10.0
Isofenphos	0.2	None	0.05	0.1	None	2.0
Kresoxim-methyl	None	None	0.05	0.1	None	10.0
Mercaptothion	4.0	4.0	2.0	0.1	8.0	4.0
Metalaxyl M	0.5	5.0	0.5	5.0	1.0	5.0



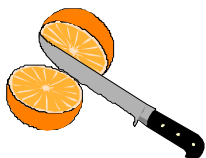
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<u>Chemical</u>	RSA	Codex	General export tolerance	Canada	USA	Japan
Methamidophos	0.2	None	0.2	0.1	None	None
Methidathion	2.0	2.0	2.0	2.0	2.0	2.0
Methiocarb	0.1	0.05	0.05	0.1	0.02	0.05
Methomyl	0.2	1.0	0.5	1.0	2.0	1.0
Methyl-parathion	None	None	0.02	None	None	0.2
Mevinphos	0.1	0.2	0.2	0.2	None	0.2
Monocrotophos	0.1	0.2	0.05	0.1	None	0.2
Omethoate	2.0	None	0.02	1.5	None	None
Parathion	0.5	0.5	0.05	1.0	None	0.5
Phenthoate	1.0	None	0.01	0.1	None	None
Phosphorous acid	None	None	0.2	0.1	None	None
Pirimicarb	0.5	0.05, 0.5 ⁷	0.05	0.1	None	0.05
Paecilomyces lilacinus	None	None	None	None	None	None
Prochloraz	2.0	5.0 ⁷	10.0	0.1	None	5.0
Procymidone	0.2	None	0.02	0.1	None	0.02
Profenofos	1.0	1.0 ⁷	0.02	0.1	None	1.0
Propargite	2.0	5.0	2.0	5.0	5.0	5.0
Prothiofos	0.05	None	0.02	0.1	None	0.1
Pyraclostrobin	0.1	None	0.05	0.1	0.7	None
Pyriproxyfen	0.2	0.5	0.05	0.1	0.3	0.5
SOPP	10.0	10.0	10.0	10.0	10.0	10.0
Spinosad	0.05	None	0.05	0.1	0.3	None
Spirodiclofen	0.1	None	0.02	0.1	None	None
Tartar emetic (antimony)	1.0	None	1.0	0.1	3.5	None
Tau-Fluvalinate	1.0	None	0.05	0.1	None	2.0
Tebuconazole	0.02	None	0.05	0.1	None	None
Teflubenzuron	0.5	None	0.05	0.1	None	1.0
Temephos	1.0	None	0.01	0.1	None	None
Terbufos	0.1	None	0.01	0.1	None	None
Tetradifon	5.0	None	1.0	2.0	2.0	None
Thiabendazole	6.0	10.0	5.0	10.0	10.0	10.0
Thiacloprid	None	None	0.02	0.1	None	None
Thiophanate-Methyl	5.0	10.0	5.0	10.0	10.0	10.0
Triazophos	2.0	None	0.02	0.1	None	None
Trichlorfon	0.1	None	0.5	0.1	None	0.1
Trifloxystrobin	0.1	None	0.02	0.1	0.3	None
Triflumuron	0.5	None	0.5	0.1	None	None
2,4-D	5.0	2.0	1.0	2.0	5.0	2.0



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3,5,6 TPA	0.1	None	0.1	0.1	None	None
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NOTES

Superscripts:

- 1 - fruit without peel/pulp
- 2 - just oranges
- 3 - exocarp of summer oranges
- 4 - fruit (except exocarp of summer oranges)
- 5 - just peel
- 6 - except mandarin oranges
- 7 - Oranges, sweet, sour
- 8 - Citrus pulp, dried
- 9 - Whole fruit
- 10 - Clementines, mandarins
- 11 - Other citrus
- 12 - Except summer oranges
- 13 - Mandarins
- 14 - Pulp juice
- 15 - No specific crop
- 16 - Summer orange and mandarins
- 17 - Summer orange, pulp and peel
- 18 - Summer orange, pulp
- 19 - Only grapefruit
- 20 - Only lemons
- 21 - mandarins, limes and lemons
- 22 - grapefruit, oranges and pommelos.

“None” = no MRL, therefore fruit must be free of detectable residue