

## MAXIMUM RESIDUE LIMITS FOR PERMISSIBLE CHEMICALS


PEARS											
Chemical	Trade Names	Local SA Reg. MRL (PPM)	Local Withholding Period (Days)	Export Default MRL (PPM)	Export Default Withholding Period (Days)	EU MRL Status 2017 (PPM)	USA MRL (PPM)	Russian Default MRL (PPM)	Russian MRL Export Default Withholding Period (MOU terms) (Days)	Codex MRL (PPM)	MRL Notes (PPM)
1- Methycyclopropene	SmartFresh	≤ 0.01	PHT	≤ 0.01	PHT	0.01	Exp.	-		-	
6-benzyl adenine (BA)	MaxCel	-	-	≤0.01	-	-	Exp.	-		-	
Abamectin	Mecti Sanamectin 18 EC Biomectin Unimectin 18 EC Abamec Plus Agromectin Abalone 18 EC Agrimec Gold Makhromectin Zoro 36 EC	0.01	7	0.01	14	0.03	0.02	0.003 Pomefruit	14	0.01 (Pome fruit)	
	As part of Voliam Targo (also see chlorantraniliprole)		14								
Acetamiprid	Mospilan 20 SG Magnitude 200 SP Maintain 200 SP Sharda Acetamiprid 200 SP Tamprid Devaxam 20 SP	0.5	50	0.5	50 Or no later than 15 December Max. 2 applications	0.8	1.0 (pome)	-		0.8 (Pome)	
Acetamiprid + Novaluron	Cormoran 180 EC	0.5	28 Maximum 3 applications per season	0.5	28 Maximum 3 applications per season	0.8	1.0	-		0.8 (Pome)	
						3.0	3.0			3.0 (Pome)	
Alpha-cypermethrin	Sentry EC Alpha-Thrin 100 SC Polytrin Super Avalanche Fastac SC Alphathrin Farmag Cypermethrin	0.5	14	0.5	14	1.0 (Cypermethrin/ isomers)	2.0 (pome, cypermethrin)	0.05 Pomefruit	Not later than 3 weeks after full bloom	0.7 (pome, as cypermethrin including alpha- and zeta- cypermethrin)	

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<b>Azadirachtin</b>	NeemAzal	0.01	24 hrs.	0.01	24 hrs No more than 5 applications per season. To be used under conditions where Codling moth is under commercial control	1.0	Exp.	-		-	
<b>Azinphos-methyl</b>	Azinphos 200 SC Azinphos 350 WP	0.4	14	0.05	56	0.05	1.5	-		2.0	
<b>Benomyl</b>	Benomyl Benomyl 500 WP Farmag Benomyl 500 WP	3.0	14	0.2	Do not use later than one week after full bloom	0.2	-	0.075 Pomefruit	Do not use later than one week after full bloom	3.0 (pome, as carbendazim)	Iran -
<b>Beta-cyfluthrin</b>		0.1	14	0.1	14	0.2 (Cyfluthrin/ isomers, Pome)	0.5 (pome)	0.2 Pomefruit		0.1 (as cyfluthrin/ beta-cyfluthrin)	
<b>Beta-cypermethrin</b>	Akito	0.5	14	0.5	14	1.0 (Cypermethrin/ isomers)	2.0 (pome, cypermethrin)	0.05 Pomefruit	Not later than 3 weeks after full bloom	0.7 (pome, as cypermethrin including alpha- and zeta-cypermethrin)	
<b>Bifenthrin</b>	Talstar Seizer 80 SC	0.1	60	0.01	Before blossom only	0.01	0.5	0.04 Pomefruit	Before blossom only	-	Indonesia -
<b>Bollworm Nucleopolyhedrovirus</b>	Bolldex Graboll Helicovir	-	0	-	0	Exp.	Exp.	-		-	
<b>Botanical extracts (Natural pyrethrin)</b>	Xterminator	1.0	0	1.0	0	1.0	1.0	-		-	Indonesia - Iran - Malaysia 0.01 Thailand -

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<b>Cadusafos</b>	Rugby 10 ME Rugby 10 G Rugby Hockey 100 EW Soccer 100 EW	≤0.01	0	≤0.01	0	0.01	-	-		-	
<b>Captab/ Captan</b>	Captab WP Thor 500 WP Captan Flo Merpan 50 SC Sharda Captan 800 WG Captan 800 WG	15.0	14	10.0	35	10.0	25.0	3.00 Pomefruit		15.0 (pome)	Vietnam - (Banned chemical)
<b>Carbaryl</b>	Sevin XLR Carbaryl 850 WP Karbapray 850 WP Karba 850 WP	2.5	7	0.01	2 Applications no later than 28 days after full bloom	0.01	12.0 (pome)	0.05 Pomefruit		-	India -
<b>Chlorfenapyr</b>	Hunter 24 SC Saber 360 SC Savage 360 SC Sergeant	0.5	30	0.01	Single application not later than the beginning of flowering	0.01	-	-		-	
<b>Chlorantraniliprole</b>	Altacor  As part of Voliam Targo (also see abamectin)	0.5	14 Max. 3 applications  14	0.5	14 Max. 3 applications	0.5	1.2 (pome)	0.5 Pomefruit		0.4 (pome)	Canada 0.4 India - [Indonesia 0.4] [Iran 0.4] [Malaysia 0.4] [Singapore 0.4] [Thailand 0.4] Vietnam -

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<b>Chlorpyrifos</b>	Lirifos Dursban 480 EC Dursban 750 WG Pyrinex 480 EC Pyrinex 250 CS Chlorban 480 EC Klub M5 Chlorpyrifos Agropyrifos 480 EC Chlorifos Chlorpyrifos 480 EC	0.05	Dormant application only	0.01	Dormant application only	0.01	0.05	0.5 Pomefruit		1.0 (pome)	[Indonesia 1.0]
<b>Codling moth granulosis virus</b>	MADEX Carpovirusine GraCyd	-	5	-	5	Exp.	Exp.	-		-	
<b>Codling moth and Oriental fruit moth granulosis virus</b>	Madex Twin Madex Dual	-	-	-	-	-	-	-		-	
<b>Copper (Cu) Oxychloride and other Cu salts</b>	Copper Oxychloride WP Coprox 850 WP Coprox Super Coprox WP Farmag Cu Super Farmag Copper Oxychloride Demildex	20.0	14	5.0	Not later than Greentip	5.0	Exp.	5.0 Pomefruit		-	Hong Kong - Malaysia Exp.
<b>Cyanamide</b>	Dormex Deurbraak Bloomer Dorcy Cymex Cyan Alert 520 SL	0.05	Dormant application only	0.01	Dormant application only	0.01	-	-		-	Hong Kong - India - Indonesia - Iran - Malaysia (0.01) Mexico - Singapore - Vietnam -

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Cyhexatin	Acarstin Flo	2.0	3	0.01	Use only prior to fruitset	0.01	-	0.01 Pomefruit	Use only prior to fruitset or post harvest	0.2	Iran Banned
Cypermethrin	Cyperin Cypermethrin 200 EC Polythrin 200 EC Avi-Sipermetrin EC Kemprin 200 EC Cymet Bitrad Cypermethrin	0.5	14	0.5	14	1.0	2.0 (pome)	0.05 Pomefruit	Not later than 3 weeks after full bloom	0.7 (pome)	
Cyprodinil	Mirano 50 WG	0.1	74	0.1	74	2.0	1.7 Pome	1.0 Pomefruit		2.0 Pome fruit	
Deltamethrin	Decis Forte Delta-Thrin 25 EC Celtis 25 EC Servus 25 EC	0.1	EC-7 SC-14	0.1	EC-7 SC-14	0.1	0.2 (pome)	0.01 Pomefruit	Not later than 3 weeks after full bloom	-	India - Indonesia - Malaysia (0.01)
Didecyldimethylammonium chloride	Sporekill Quattro-Kill Terminator Spore-Attack	20.0	0	0.1	Do not use on export fruit Contact relevant Ag-Chem company to confirm	0.1	-	-		-	
Difenoconazole	Score D-zole 250 EC Scope 250 EC Defender Quantum 275 EC Venture 275 EC Sharda Difenoconazole 250 EC Divino 250 EC Sterin 250 EC Farmag Difenoconazole 250 EC	0.2	14	0.2	28 Max. 4 applications	0.8	5.0 (pome)	0.1 Pomefruit	Not later than 75% petal fall	0.8 (pome)	
Diphenylamine	Shield Liquid DPA No scald DPA	10.0	PHT	0.1	Not for use on fruit for EU	0.1	5.0	-		5.0	

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Dithianon	Delan Alaris WG Detect 400 SC Inspect 400 SC Sense 660 WDG Nugget 660 WDG Maccani	2.0	21	2.0	21	3.0	5.0	2.0 Pomefruit		1.0 (pome)	Canada (0.1) [India 1.0] [Indonesia 1.0] [Iran 1.0] [Malaysia 1.0] [Singapore 1.0] Switzerland 0.6 [Thailand 1.0]
					28						
Dithianon +	Combine 160 WDG	2.0	21	2.0	21	3.0	5.0	2.0 Pomefruit		1.0 (pome)	Canada (0.1) [India 1.0] [Indonesia 1.0] [Iran 1.0] [Malaysia 1.0] [Singapore 1.0] Switzerland 0.6 [Thailand 1.0]
Trifloxystrobin		0.1		0.1		0.7	0.5 (pome)	0.1 Pomefruit		0.7 (pome)	
Dodine	Syllit Antagon	1.0	14	0.9	14 Max. 4 applications	0.9	5.0	-		5.0 (pome)	
Emamectin benzoate	Vitex 50 (In combination with Clarity) Promec 20 EW (in combination with Clarity)	0.01	28	0.01	28	0.02	0.025 Pome fruit	-		0.02 Pome fruit	
	Warlock 19.2 EC				14						
Esfenvalerate	Sumi-alpha	0.5	14	0.05	42	0.1	1.0	0.1 Pomefruit		-	India - Indonesia - Malaysia (0.01) Singapore - Thailand -
Etoxazole	Smite	0.2	42	0.07	65	0.07	0.2 (pome)	-		0.07 (pome)	

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<b>Fenazaquin</b>	Pride 200 SC Vanity 200 SC Superior 200 SC	0.05	30	0.05	30 Single application only	0.1	0.2 Import tolerance	0.2 Pomefruit		-	Hong Kong - India - Indonesia - Iran - Malaysia (0.01) Mexico - Singapore - Vietnam -
<b>Fenbuconazole</b>	Indar 50 EW	0.1	14	0.1	14 Max. 4 applications	0.5	-	-		0.5 (pome)	
<b>Fenbutatin oxide</b>	Mitrus	2.0	14	2.0	14	2.0	15.0	-		5.0 (pome)	
<b>Fenoxycarb</b>	Insegar	1.0	21	1.0	21 1st or 2nd generation Max. 4 applications	1.0	-	0.01 Pome	Not later than 75% petal fall	-	Canada (0.1) Hong Kong - India - Indonesia - Iran - Malaysia (0.01) Mexico - Singapore - Vietnam -
<b>Fludioxonil</b>	Scholar Teacher 230 SC	5.0	1	5.0	1	5.0	5.0 (pome)	0.7 Pear	Contact relevent Ag- chem company to confirm	5.0 (pome)	Hong Kong 0.7
<b>Flufenoxuron</b>	Pitch 100 DC Torrent 100 DC	0.05	75	0.05	75 Max. 3 sprays	0.5	0.5	-		-	India - Indonesia - Iran - Malaysia (0.01) Mexico - Singapore - Vietnam -

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Fluopyram + Tebuconazole	Luna Experience	0.5	21	0.5	21 Max. 3 applications	0.5	0.8 Pome	-		0.5 (pome)	Hong Kong -
		0.3		0.3		0.3				0.05	1.0
Flusilazole	Flusilazole 100 EC Intensive 100 EW Manage 100 EW Galactica Flustar WG	0.1	14	0.01	42 Max. 4 applications	0.01	-	-		0.3 (pome)	
Fluxapyroxad	Sercadis	0.05	56	0.05	56	0.9	0.8	-		0.9 (Pome fruit)	Hong Kong -
Furfural	Crop Guard	-	0	≤0.01	0	1.0	-	-		-	
Gamma-cyhalothrin	Vantex 60 CS	0.2	14	0.01	Contact relevant Agchem company to confirm	0.01	0.3 (pome)	0.1 Pomefruit		0.2 (pome, as cyhalothrin)	Iran -
Gibberellins	Falgro 20 SP Falgro 4 SL ProGibb 4% ProGibb 40% Falgro tablets	-	Early bloom application only	≤0.01	Early bloom application only	No MRL required	Exp.	-		-	
	Gibb Liquid 4		Forelle pears apply at 30-40% blooming		Forelle pears apply at 30-40% blooming						





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Hexaconazole		0.1	14	0.01	Contact relevant Ag-Chem company to confirm	0.01	-	-		-	
Imazalil * also refer to Pyrimethanil	Philabuster 400 SC	2.0	Post harvest	2.0	Post harvest	2.0	-	-		5.0 (pome)	Canada (0.1) Switzerland 0.02
Indoxacarb	Margin 300 WDG Doxstar flo	1.0	28	0.5	28 Max. 3 applications	0.5	0.2	0.2 Pear	Contact relevant Ag-chem company to confirm	0.2	Canada (0.1) [India 0.2] Indonesia 0.2 [Iran 0.2] [Malaysia 0.2] Mexico 0.2 [Singapore 0.2] [Vietnam 0.2]
	Steward Margin 300 WDG Session 300 WDG Indo 300 WDG				28 Max. 4 applications						
Indoxacarb +	Plemax	1.0	28	0.5	28	0.5	0.2	0.2 Pear	28	0.2	
Novaluron		0.5				3.0					

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<b>Iprodione</b> <b>Note:</b> <b>EU authorisation/ MRL withdrawal pending, may affect late season fruit types</b>	Prodione Rovral Aquaflor Iprodione 500 SC Taurus 500 SC Iproflo Pickle 500 SC Roflo	2.0	Up to 75% petal drop PHT	2.0	Up to 75% petal drop, (PHT for local market & export, EXCLUDING USA)	6.0	-	-		5.0 (pome)	Canada (0.1)
	Iprone 500 SC				Up to 75% petal drop						
	Pickle 500 SC		PHT								
<b>Kresoxim-methyl</b>	Kreso WDG Kresoxim-methyl 500 WDG Vista Flo Kreso 50 WG Ardent 50 SC	0.1	45	0.1	45	0.2	0.5 (pome)	0.2 Pomefruit		0.2 (pome)	
<b>Lambda-cyhalothrin</b>	Karate EC Karate Zeon Judo 50 EC Lambda 50 EC Lambda EC Lamdex 5 EC Lambada aquamul Karate Zeon 10 CS Karis 5 CS	0.2	14	0.1	28	0.1	0.3	0.03 Pomefruit	Up to 3 weeks after full bloom	0.2 (pome, as cyhalothrin, including lambda-cyhalothrin)	Switzerland 0.01



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<b>Mancozeb</b>	Dithane M-45 800 WP NT Dithane M-45 800 WP Dithane 750 WG Neotec Newzeb 800 WP Ventum 800 WP Newzeb 750 WDG Cozeb 800 WP Mancozeb 800 WP (L3517) Mancozeb 800 WP (L9169) Vondozeb Tsumeb Villa Unizeb WP Tridex 800 WP Multizeb 455 SC Newzeb 455 SC Unizeb 480 SC Penncozeb WG Pennfluid 420 SC Farmag Mancozeb 800 WP Crater 455 SC	3.0	14	3.0	21	5.0 (as CS <sub>2</sub> )	0.6	-		5.0 (pome) (Dithiocarb.)	
<b>Maneb</b>	Manager SC Vandal Mangle SC	3.0	14	3.0	28	5.0 (as CS <sub>2</sub> )	-	-		5.0 (pome) (Dithiocarb.)	

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<b>Mercaptothion/ Malathion</b>	Datathion EC Mercaptothion 500 EC Avi-Merkaptotoks WP Fyfanon 440 EW	2.0	10	0.02	28 Bait application ONLY	0.02	8.0	0.5 Pomefruit		-	Indonesia - Malaysia (0.01) Singapore - Thailand - Vietnam -
<b>Methidathion</b>	Methidathion 420 EC Suprathion 420 EC Arythion	0.3	EC-dormant application only WP-21	0.03	EC - Dormant application only WP- Up to 90% petal fall	0.03	0.05 (pome)	-		1.0	Iran Banned
<b>Methoxyfenozide</b>	Runner 240 SC	1.5	10	1.5	10	2.0	2.0 (pome)	-	10	2.0 (pome)	
	Clarity		28		28				28		
<b>Methyl-Parathion</b>	Droper 450 CS Pennacap-M	0.01	60	≤ 0.01	60 Apply during first codling moth generation only. Max 3 applications not later than 15 December	0.01	Tolerance withdrawn in USA	0.004 Pomefruit		-	Iran Banned Vietnam - (Banned chemical)

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<b>Mineral oil</b>	Ampron Citrole 100 Citrole 60 Budbreak Awakening oil CROPCHEM 86% Winter oil Opron	-	Dormant application only	≤ 0.01	Dormant application only	-	-	-		-	
<b>Myclobutanil</b>	Rally 200 EW  Validus	0.2	14	0.2	14	0.6	-	-		0.6  (pome)	
<b>Novaluron</b>	Rimon 10 EC React 100 EC Rizon 100 EC	0.5	84 Single application, before 75% petal fall	0.5	84 Single application, before 75% petal fall	3.0	3.0 (pome)	-		3.0 (pome)	
<b>Penconazole</b>	Topaz 200 EW Excalibur 200 EW Penconazole 200 EW Pencomax 200 EW Captain	0.1	14	0.1	14	0.2	-	0.2 Pomefruit		0.2 (pome)	
<b>Penconazole + Difenoconazole</b>	D-zole 250 EC Ethos 275 EC * Ethos 275 EW * Venture 275 EC * Quantum 257 EC *	0.1  0.2	28 Ma.x. 4 applications	0.1  0.2	28 Ma.x. 4 applications	0.2  0.8	-  5.0 (pome)	0.2 Pomefruit  0.1 Pomefruit	Not later than 75% petal fall  * (42 days for Ethos 275 EC, Ethos 275 EW, Venture 275 EC and Quantum 250 EC)	0.2 (pome)  0.8 (pome)	   Canada (0.1)
<b>Procymidone</b>	Hit 500 SC	0.05	Not after blossom	≤0.01	Not later than 75% petal drop	0.01	-	-		-	

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Propargite	Omite 30 WSB	0.05	PHT On trees	0.01	PHT On trees	0.01	-	0.1 Pomefruit		-	India - Indonesia - Malaysia (0.01) Mexico -
Prothiofos	Tokuthion® 960 EC	0.05	FST	≤ 0.01	Use before green tip	-	-	-		-	
Pyraclostrobin + Dithianon	Maccani	0.02	28	0.02	28	0.5	1.5 (pome)	0.3 Pomefruit		-	India - Indonesia - Iran - Malaysia (0.01) Singapore - Vietnam -
		2.0		2.0		3.0	5.0	2.0 Pomefruit		1.0 (pome)	Canada (0.1) [India 1.0] [Indonesia 1.0] [Iran 1.0] [Malaysia 1.0] [Singapore 1.0] [Switzerland 0.6] [Thailand 1.0]
Pyrimethanil	Philabuster 400 SC Protector 400 SC ecoFOG-160 (post harvest thermofogging) Pyrimet 400 SC	5.0	0	5.0	0	15.0	15.0	-		15.0 (pome)	
	Support 400 SC Source 400 SC Botrynil		35		35						




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Pyrimethanil + Dithianon	Pyrinon 500 SC	5.0	35	5.0	35	15.0	15.0	-		15.0 (pome)	
		2.0		2.0		3.0	5.0	2.0 Pomefruit		1.0 (pome)	
Pyrimethanil + Trifloxystrobin	Flint Star Filum 520 SC	5.0	35	5.0	35	15.0	15.0	-		15.0 (pome)	
		0.1		0.1		0.7	0.5 (pome)	0.1 Pomefruit		0.7 (pome)	
Soybean oil	Mprove Oil	-	Dormant application only	-	Dormant application only	0.01	Exp.	-		-	
Spinetoram	Delegate 250 WG	0.05	7	0.05	7	0.2	0.2 (pome)	-		0.05 (pome)	Switzerland -
Spinosad	Tracer 480 SC Entrust Naturalyte 800 WP	0.01	14	0.01	21 Max. 4 applications	0.3	0.2 (pome)	-			
	GF-120 NF		0		0 Multiple bait applications						

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Spinosad + Methyl eugenol	STATIC Spinosad ME	0.01	1	0.01	1	0.3	0.2 (pome)	-		-	
		-		-		No MRL required	-				
Steinernema Carpopapsae (Beneficial nematodes)	Nemasys C	-	0	-	0	-	-	-		-	
Sulfoxaflor	Closer 240 SC	0.3	7	0.3	7	0.4	0.5 (Pome)	-		0.3 (Pome)	Switzerland -
Sulphur	Kumulus WG Thiovit Jet Flowable Sulphur Lime Sulphur Liquid Concentrate Cosavet Dusting sulphur Striker Ciplapol S 320 Striker SC Microthiol Special Sulgran 800 WDG	50.0	0	50.0	0	No MRL required	Exp.	-		-	Indonesia - Iran - Malaysia Exp. Vietnam -
Taufluvallinate	Klartan 240 EW	0.05	60	0.05	60	0.3	-	0.2 Pomefruit		-	Hong Kong - India - Indonesia - Iran - Malaysia (0,01) Mexico - Singapore - Vietnam -



 <b>MAXIMUM RESIDUE LIMITS FOR PERMISSIBLE CHEMICALS</b>											
PEARS											
Chemical	Trade Names	Local SA Reg. MRL (PPM)	Local Withholding Period (Days)	Export Default MRL (PPM)	Export Default Withholding Period (Days)	EU MRL Status 2017 (PPM)	USA MRL (PPM)	Russian Default MRL (PPM)	Russian MRL Export Default Withholding Period (MOU terms) (Days)	Codex MRL (PPM)	MRL Notes (PPM)
<b>Thiabendazole</b>	Thiazole 500 SC Thiabendazole 500 SC	6.0	PHT	5.0	PHT	5.0 (Unpublished Sante/11077/2016, proposed new MRL 4.0)	5.0	-	Contact relevant Ag-chem company to confirm	3.0 Pome	Hong Kong 3.0 [India 3.0] [Indonesia 3.0] [Iran 3.0] [Malaysia 3.0] Thailand 0.1 Vietnam 3.0
<b>Thiacloprid</b>	Calypso Topstar Ag-Thiacloprid 480 SC Compare 480 SC Consult 480 SC	1.0	14	0.3	28 (Max. 4 sprays)	0.3	0.3 (pome)	0.3 Pomefruit		0.7 (pome)	
<b>Thidiazuron</b>		-	Dormant application only	-	Dormant application only	-	-	-		-	
<b>Trichlorfon</b>	Trichlorfon 950 SP	0.2	10	0.01	Only for use in bait applications, not later than 75% petal drop	0.01	-	0.1 Pomefruit		-	
<b>Trifloxystrobin</b> *also refer to Pyrimethanil	Flint Star* Connect 500 WDG Unite 500 WDG	0.1	14	0.1	14 (Max. 3 sprays)	0.7	0.5 (pome)	0.1 Pomefruit		0.7 (pome)	
<b>Triflumuron</b>	Triflumuron 480	2.0	21	0.5	70 Do not apply more than 3 sprays per season	0.5	-	-		-	Canada (0.1) Hong Kong - India - Indonesia - Iran - Malaysia (0.01) Mexico - Singapore - Vietnam -
<b>Zeta-cypermethrin</b>	Fury 10 EW Fury	0.5	14	0.5	14	1.0 (Cypermethrin/ isomers)	2.0 (pome)	0.05 Pomefruit	Not later than 3 weeks after full bloom	0.7 (pome, as cypermethrin including alpha- and zeta-cypermeth)	