

LISTA PIC - PRODUÇÃO INTEGRADA DE CITROS

1. GRADE DE INSETICIDAS, ACARICIDAS, FUNGICIDAS DA PRODUÇÃO INTEGRADA DOS CITROS - PIC BRASIL

Grade elaborada pelo Comitê de Agrotóxicos para a Produção Integrada de Citros-PIC Brasil, Atualizado em 15/04/2019

	Ingrediente Ativo	Produto Registrado	Classe	Dose Registro (mL ou g /100L)	Carência (dias)	Form	Tox	Amb	Registrante	Grupo Químico
1	Abamectina	Abadin 72 EC	Inseticida/Acaric.	3,75-7,5	7	EC	I	II	Cropchem	Avermectina
		Abamectin 72 EC Nortox	Inseticida/Acaric.	3,75-7,5	7	EC	I	II	Nortox	Avermectina
		Abamectin Nortox	Inseticida/Acaric.	15,0-30,0	7	EC	III	III	Nortox	Avermectina
		Abamectin Prentiss	Inseticida/Acaric.	20,0-30,0	7	EC	I	III	Prentiss	Avermectina
		Abamex	Inseticida/Acaric.	20,0	7	EC	I	III	Nufarm	Avermectina
		Abamex BR 18	Inseticida/Acaric.	20,0	7	EC	I	III	Nufarm	Avermectina
		Acaramik	Inseticida/Acaric.	15,0-30,0	7	EC	I	III	Rotam	Avermectina
		Banter	Insetic./Acaric./Nematic.	15,0-30,0	7	EC	I	II	UPL	Avermectina
		Batent	Insetic./Acaric./Nematic.	15,0-30,0	7	EC	I	III	UPL	Avermectina
		Boreal	Insetic./Acaric./Nematic.	10,0-30,0	7	EC	I	II	Tradecorp	Avermectina
		Grimectin	Inseticida/Acaric.	15,0-30,0	7	EC	I	III	Rotam	Avermectina
		Pausato	Acaricida/Inseticida	20,0-30,0	7	EC	I	III	Sinon	Avermectina
		Potenza Sinon	Inseticida/Acaric.	20,0-30,0	7	EC	I	III	Sinon	Avermectina
Rotamik	Inseticida/Acaric.	15,0-30,0	7	EC	I	III	Rotam	Avermectina		
Vertimec 18 EC	Insetic./Acaric./Nematic.	10,0-30,0	7	EC	III	II	Syngenta	Avermectina		
2	Acetamiprido	Convence	Inseticida	1,5-5,0 mL/planta	60	SL	II	III	Iharabras	Neonicotinóide
		Mospilan WG	Inseticida	3,0-7,0	3	WG	III	II	Iharabras	Neonicotinóide
3	Acetamiprido + Bifentrina	Sperto	Inseticida	8,0-12,0	21	WG	III	I	UPL	Neonicotinóide + Piretróide
4	Acetamiprido + Piriproximem	Privilege	Inseticida	2,5-7,5	14	OD	III	I	Iharabras	Neonicotinóide + Éter Piridiloxipropílico
5	Alfacipermetrina + Teflubenzuron	Imunit	Inseticida	20-25 mL	15	SC	III	II	Basf	Piretróide + Benzoluréia
6	Azadiractina	Azact CE	Inseticida/Fungicida	4 L/ha	-	EC	II	IV	LAC e Silva Agronegócios	Tetranortriterpenóides
		AzaMax	Inseticida	100,0-250,0	-	EC	III	IV	UPL	Tetranortriterpenóides
7	Azoxistrobina	Amistar WG	Fungicida	8,0-16,0	7	WG	IV	II	Syngenta	Estrobilurina
		Vantigo	Fungicida	8,0-16,0	7	WG	IV	III	Syngenta	Estrobilurina
8	Azoxistrobina + Difenconazol	Priori Top	Fungicida	20,0	7	SC	III	II	Syngenta	Estrobilurina + Triazol
9	Azoxistrobina + Tebuconazol	Azimut	Fungicida	30,0-40,0	20	SC	III	II	Adama	Estrobilurina + Triazol
		Helmstar Plus	Fungicida	0,7 L/ha	20	SC	II	II	Helm	Estrobilurina + Triazol
10	Beta-ciflutrina	Bulldock 125 SC	Inseticida	50-100 mL/há	21	SC	II	II	Bayer	Piretróide
		Ducat	Inseticida	12,5-25,0	21	EC	II	II	Bayer	Piretróide
		Full	Inseticida	12,5-25,0	21	EC	II	II	Bayer	Piretróide
		Turbo	Inseticida	12,5-25,0	21	EC	II	II	Bayer	Piretróide
11	Bifentrina	Seizer 100 EC	Insetic./Acaric.	7,5-20,0	7	EC	III	II	Adama	Piretróide
		Talstar 100 CE	Insetic./Acaric.	7,5-20,0	7	EC	III	III	FMC	Piretróide
12	Buprofezina	Applaud 250	Inseticida/Reg. de Crescimento	100,0-200,0	7	WP	III	III	Arysta	Tiadiazinona
		Sensei	Inseticida	30-200	7	SC	III	III	Helm	Tiadiazinona
13	Clorantraniliprole+Abamectina	Voliam Targo	Inseticida/Acaric.	5,0-20,0	7	SC	II	II	Syngenta	Antranilamida+Avermectina
14	Clorantraniliprole+Tiametoxam	Durivo	Inseticida	1,0-2,0 mL/metro alt. planta	14	SC	III	II	Syngenta	Antranilamida+Neonicotinóide

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	Ingrediente Ativo	Produto Registrado	Classe	Dose Registro (mL ou g /100L)	Carência (dias)	Form	Tox	Amb	Registrante	Grupo Químico
15	Clorpirifós	Astro	Inseticida	100,0-150,0	21	EW	I	II	Bayer	Organofosforado
		CapatazBR	Acaricida/Inseticida	100,0-150,0	21	EC	I	I	Ouro Fino	Organofosforado
		Ciclone 48 EC	Inseticida/Acaricida	200,0	21	EC	I	II	Sapec	Organofosforado
		Clorpirifós Fersol 480 EC	Inseticida	100,0-200,0	21	EC	I	II	Fersol	Organofosforado
		Klorplan 480 EC	Inseticida	100,0-200,0	21	EC	I	II	Nufarm	Organofosforado
		Lorsban 480 BR	Insetic./Acaric.	100,0-200,0	21	EC	I	II	Dow	Organofosforado
		Nufos 480 EC	Inseticida	100,0-150,0	21	EC	I	II	FMC	Organofosforado
		Pyrinex 480 EC	Inseticida	200,0	21	EC	I	II	Adama	Organofosforado
		Record 480 EC	Inseticida	100,0-150,0	21	EC	I	I	Helm	Organofosforado
		Sabre	Inseticida	100,0-150,0	21	EW	III	II	Dow	Organofosforado
		Vexter	Insetic./Acaric.	100,0-200,0	21	EC	II	II	Dow	Organofosforado
16	Ciflumetofen	Wild	Inseticida	100,0-200,0	21	EC	I	II	Albaugh	Organofosforado
		Obny	Acaricida	40,0	7	SC	III	III	Arysta	Benzoilacetona nitrila
		Okay	Acaricida	40,0	7	SC	III	III	Iharabras	Benzoilacetona nitrila
17	Cloridrato de Formetanato	Dicarzol 500 SP	Insetic./Acaric.	20,0-25,0	21	SP	II	II	Cross Link	Metilcarbamato de Fenila
18	Diflubenzurom	Copa	Inseticida	500,0 g/ha	30	WP	III	III	BRA	Benzoiluréia
		Diflubenzuron 240 SC Crop	Insetic./Acaric.	15,0-50,0	30	SC	IV	II	Avgust	Benzoiluréia
		Difluchem 240 SC	Inseticida	25,0	30	SC	III	II	Helm	Benzoiluréia
		Diflumax	Inseticida	25,0	30	SC	III	II	Helm	Benzoiluréia
		Dimilin	Inseticida	500,0 g/ha	30	WP	IV	III	Arysta	Benzoiluréia
		Du Dim	Inseticida	25,0	30	WP	I	III	Arysta	Benzoiluréia
		Herold SC	Insetic./Acaric.	25,0-50,0	30	SC	IV	II	Avgust	Benzoiluréia
		Login	Inseticida	500,0 g/ha	30	WP	I	II	UPL	Benzoiluréia
19	Difenoconazol	Micromite 240 SC	Insetic./Acaric.	15,0-50,0	30	SC	III	III	Arysta	Benzoiluréia
		Curygen EC	Fungicida	20,0	7	EC	I	II	Avgust	Triazol
		Difcor 250 EC	Fungicida	20,0	7	EC	I	II	Cross Link	Triazol
		Prisma Plus	Fungicida	20,0	7	EC	I	II	Helm	Triazol
		Score	Fungicida	20,0	7	EC	I	II	Syngenta	Triazol
20	Dimetoato	Volna 250 EC	Fungicida	20,0	7	EC	I	II	Avgust	Triazol
		Agritoato 400	Inseticida	150,0	3	EC	I	II	Nufarm	Organofosforado
		Dimetoato 500 EC Nortox	Insetic./Acaric.	80,0-300,0	3	EC	I	II	Nortox	Organofosforado
		Dimexion	Inseticida	100,0-500,0	3	EC	I	II	FMC	Organofosforado
		Tiomet 400 CE	Insetic./Acaric.	100,0-500,0	3	EC	I	II	Sipcam	Organofosforado
21	Enxofre	Agrothio 800	Acaric./Fungic.	500,0-600,0	s/r	SC	IV	IV	Samaritá	Inorgânico
		Cover DF	Acaric./Fungic.	300,0-500,0	s/r	WG	IV	IV	Basf	Inorgânico
		Defend WDG	Acaricida	4,0 kg/ha	s/r	WG	IV	IV	Quimetal	Inorgânico
		Enxofre Fersol 520 SC	Acaricida	240,0	s/r	SC	IV	IV	Ameribrás	Inorgânico
		Kumulus DF	Acaric./Fungic.	300,0-500,0	s/r	WG	III	III	Basf	Inorgânico
		Kumulus DF-AG	Acaric./Fungic.	300,0-500,0	s/r	WG	IV	IV	Basf	Inorgânico
		Microsulfan 800 PM	Acaric./Fungic.	400,0	s/r	WG	IV	IV	Enro	Inorgânico
		Microthiol Dispers WG	Acaricida	500,0	s/r	WG	IV	IV	UPL	Inorgânico
		Microzol	Acaric./Fungic.	300,0	s/r	SC	IV	IV	Microquímica	Inorgânico
		Rapid	Acaricida	300,0	s/r	WP	IV	III	Dow	Inorgânico
		Sulficamp	Acaric./Fungic.	600,0	s/r	WP	IV	III	Sipcam	Inorgânico
		Sulfure 750	Acaricida	125,0-250,0	s/r	SC	IV	IV	Bio Soja	Inorgânico

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22	Espinetoram	Delegate	Inseticida	5,0-10,0	1	WG	III	II	Dow	Espinosinas
23	Espinosade	Success*0.02 CB	Inseticida	1,0-1,6 L/ha	14	CB	III	III	Dow	Espinosinas
		Tracer	Inseticida	10,0-15,0	14	SC	III	III	Dow	Espinosinas
24	Espiroidiclofeno	Envidor	Acaricida	20,0-25,0	21	SC	III	III	Bayer	Cetoenol
25	Etofenproxi	Safety	Inseticida	30,0-60,0	7	EC	III	III	Iharabras	Éter Difenilico
		Trebon 100 SC	Inseticida	10,0-25,0	7	SC	III	III	Sipcam	Éter Difenilico
26	Etoxazol	Borneo	Acaricida	45,0	14	SC	II	III	Sumitomo	Difenil oxazolina
		Smite	Acaricida	45,0	14	SC	II	III	Sumitomo	Difenil oxazolina
27	Fosetil	Aliette	Fungicida	250,0	25	WP	IV	III	Bayer	Fosfonato
28	Fenpiroximato	Fujimite 50 SC	Acaricida	100,0	15	SC	II	I	Rotam	Pirazol
		Ortus 50 SC	Acaricida	100,0	15	SC	II	II	Arysta	Pirazol
29	Fenpropatrina	Danimen 300 EC	Insetic./Acaric.	20,0-50,0	28	EC	I	II	Sumitomo	Piretróide
		Meothrin 300	Insetic./Acaric.	20,0-50,0	28	EC	I	II	Sumitomo	Piretróide
		Sumirody 300	Insetic./Acaric.	20,0-50,0	28	EC	I	II	Sumitomo	Piretróide
30	Fluxaproxade + Piraclostrobina	Orkestra SC	Fungicida	10,0-15,0	14	SC	III	II	Basf	Carboxamida + Estrobilurina
31	Flufenoxurom	Cascade 100	Insetic./Acaric.	30,0-50,0	15	EC	I	II	Basf	Benzoluréia
32	Fosmete	Imidan 500 WP	Inseticida	25,0-150,0	20	WP	I	III	Cross Link	Organofosforado
33	Hexitiazoxi	Savey WP	Acaricida	3,0	30	WP	II	II	Du Pont	Tiazolidinacarboxamida
34	Hidróxido de Cobre	Auge	Fungicida	2,0-3,0 L/ha	s/r	SC	III	III	Oxiquímica	Inorgânico
		Contact	Fungicida	0,85-1,7 kg/ha ou 200,0	s/r	WP	IV	III	Mitsui	Inorgânico
		Ellect	Fungicida	2,0-3,0 kg/ha	s/r	WP	I	III	Oxiquímica	Inorgânico
		Garant	Bacteric./Fungic.	0,85-1,7 kg/ha ou 200,0	s/r	WP	IV	II	Mitsui	Inorgânico
		Garant BR	Bacteric./Fungic.	0,85-1,7 kg/ha ou 200,0	7	WP	III	II	Du Pont	Inorgânico
		Garra 450 WP	Fungicida	100,0-150,0	7	WP	I	III	Oxiquímica	Inorgânico
		Kentan 40 WG	Fungicida	75,0-100,0	s/r	WG	I	II	Isagro	Inorgânico
		Kocide WDG Bioactive	Bacteric./Fungic.	75,0-125,0	s/r	WG	III	II	Mitsui	Inorgânico
		Supera	Fungicida	2,0-3,0 L/ha	s/r	SC	III	III	Oxiquímica	Inorgânico
Tutor	Fungicida	175,0-225,0	s/r	WG	II	III	Basf S.A.	Inorgânico		
35	Imazalil*	Imazacure 500 EC	Fungicida	200,0	3	EC	I	II	Defensive	Imidazol
		Magnate 500 EC	Fungicida	200,0	3	EC	I	II	Adama	Imidazol
36	Imidacloprido	Bamako 700 WG	Inseticida	5,0 g/100 L água ou 0,5-1 g/planta	21	WG	I	III	Rotam	Neonicotinóide
		Cigaral	Inseticida	5,0	21	WP	I	III	Anasac	Neonicotinóide
		Evidence 700 WG	Inseticida	0,5-10,0	21	WG	IV	III	Bayer	Neonicotinóide
		Galeão	Inseticida	5,0-10,0	21	WG	I	III	Helm	Neonicotinóide
		Granary	Inseticida	5,0-10,0	21	WG	III	III	Albaugh	Neonicotinóide
		Imaxi 700 WG	Inseticida	5,0 g/100 L água ou 0,5-1 g/planta	21	WG	I	III	Rotam	Neonicotinóide
		Imidacloprid 350 SC	Inseticida	9,0-11,0	21	SC	III	III	Rotam	Neonicotinóide
		Imidacloprid 700 WG HELM	Inseticida	5,0-10,0	21	WG	I	III	Helm	Neonicotinóide
		Imidacloprid Nortox	Inseticida	10,0-300,0	21	SC	II	II	Nortox	Neonicotinóide
		Imidagold 700 WG	Inseticida	5,0-10,0	21	WG	III	III	UPL	Neonicotinóide
		Provado 200 SC	Inseticida	15,0-50,0	21	SC	III	III	Bayer	Neonicotinóide
		Rotaprid 350 SC	Inseticida	9,0-11,0	21	SC	III	III	Rotam	Neonicotinóide
		Timon	Inseticida	15,0-50,0	21	SC	III	III	Bayer	Neonicotinóide
		Warrant 700 WG	Inseticida	5,0	21	WG	III	III	FMC	Neonicotinóide
Winner	Inseticida	2,5-5,0 mL/planta	21	SL	II	III	Bayer	Neonicotinóide		
37	Malationa	Malathion 1000 EC Cheminova	Inseticida	150,0-200,0	7	EC	I	II	FMC	Organofosforado
		Malathion Prentiss	Inseticida	300,0-400,0	7	EC	III	III	Prentiss	Organofosforado

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38	Óleo Mineral	Argenfrut RV	Insetic./Fungic.	1000,0	s/r	EC	III	III	Agrovant	Hidrocarbonetos Alifáticos
		Assist	Insetic./Fungic./Adjuv.	1.000,0-2.000,0	s/r	EC	IV	IV	Basf	Hidrocarbonetos Alifáticos
		Dytrol	Insetic./Adjuvante	1.000,0-2.000,0	s/r	EC	IV	III	Ameribrás	Hidrocarbonetos Alifáticos
		Miner Oil	Inseticida/Adjuvante	1.000,0-1.500,0	s/r	EC	IV	III	Ameribrás	Hidrocarbonetos Alifáticos
		Oppa BR EC	Inseticida/Adjuvante	1.000,0-1.500,0	s/r	EC	IV	III	Petrobrás	Hidrocarbonetos Alifáticos
		Orix	Inseticida/Adjuvante	1.000,0-1.500,0	s/r	EW	IV	IV	Oxiquímica	Hidrocarbonetos Alifáticos
		Purespray 15E	Acaricida	1000,0	s/r	SO	IV	III	IQ Soluções	Hidrocarbonetos Alifáticos
39	Óleo Vegetal	Triona	Espalhante/Adjuvante	1.000,0-1.500,0	s/r	EW	IV	III	Basf	Hidrocarbonetos Alifáticos
		Agro Oil	Inseticida/Adjuvante	2.000,0-3.000,0	s/r	EC	IV	IV	Bio soja	Ésteres de Ác. Graxos
		Fersoil	Inseticida/Adjuvante	500-1000,00	s/r	EC	IV	IV	Ameribrás	Ésteres de Ác. Graxos
		Graxol	Inseticida	2.000,0	s/r	EC	IV	IV	Agrária	Ésteres de Ác. Graxos
		Natur'l Óleo	Inseticida/Adjuvante	1.000,0-3.000,0	s/r	EW	IV	IV	Stoller	Ésteres de Ác. Graxos
		Óleo Vegetal Nortox	Inseticida/Adjuvante	2.000,0	s/r	EC	IV	IV	Nortox	Ésteres de Ác. Graxos
		Óleo Vegetal Samaritá	Inseticida/Adjuvante	2.000,0-3.000,0	s/r	EC	IV	IV	Bio soja	Ésteres de Ác. Graxos
		Quimióleo	Inseticida/Adjuvante	1.000,0-2.000,0	s/r	EW	IV	IV	Fênix Agro-Pecus	Ésteres de Ác. Graxos
40	Oxicloreto de Cobre	Veget Oil	Inseticida	1.000	s/r	EC	IV	IV	Oxiquímica	Ésteres de Ác. Graxos
		Vision	Inseticida/Adjuvante	500-1000,00	s/r	EC	IV	IV	Oxiquímica	Ésteres de Ác. Graxos
		Agrinose	Fungicida/Bactericida	400,0	-	WP	III	II	Nufarm	Inorgânico
		Cobox	Fungicida	250,0	7	WP	IV	III	Basf	Inorgânico
		Cobox DF	Fungicida	250,0	7	WG	IV	III	Basf	Inorgânico
		Cobre Fersol	Fungicida	300,0	-	WP	IV	III	Ameribrás	Inorgânico
		Copsuper	Fungicida	150-200,0 ou 2-2,5 L/ha	-	SC	III	III	Oxiquímica	Inorgânico
		Cupravit Azul BR	Fungicida	300,0	7	WP	IV	IV	Bayer	Inorgânico
		Cupravit Verde	Fungicida	180,0	7	WP	IV	III	Bayer	Inorgânico
		Cupital 700	Fungicida/Bactericida	75,0-100,0	s/r	SC	II	III	Tradecorp	Inorgânico
		Cuprocarb 350	Fungicida	200,0-300,0	7	WP	IV	III	Oxiquímica	Inorgânico
		Cuprocarb 500	Fungicida	150,0-200,0	-	WP	IV	III	Oxiquímica	Inorgânico
		Cupuran 500 PM	Fungicida/Bactericida	3 kg/ha	-	WP	IV	III	Mitsui	Inorgânico
		Difere	Fungicida	3,0-4,0 L/ha	-	SC	III	III	Oxiquímica	Inorgânico
		Fanavid 85	Fungicida	300,0-450,0	7	WP	III	III	Rizzi	Inorgânico
		Fanavid Flowable	Fungicida	300,0-450,0	7	SC	IV	III	Rizzi	Inorgânico
		Fungitol Azul	Fungicida	275,0	7	WP	IV	III	Mitsui	Inorgânico
		Fungitol Verde	Fungicida/Bactericida	150,0	7	WP	IV	III	Mitsui	Inorgânico
		Funguran Verde	Fungicida	100,0	-	WP	IV	II	Agrovant	Inorgânico
		Neoram 37,5 WG	Fungicida	300,0	-	WG	I	II	Isagro	Inorgânico
Ramexane 850 PM	Fungicida	250,0	-	WP	IV	III	Sipcam	Inorgânico		
41	Óxido Cuproso	Reconil	Fungicida/Bactericida	200,0	-	WP	IV	III	Albaugh	Inorgânico
		Recop	Fungicida	250,0	-	WP	IV	III	Albaugh	Inorgânico
42	Oxymatrine	Status	Fungicida	150,0-200,0 ou 2-2,5 L/ha	-	SC	III	III	Oxiquímica	Inorgânico
		Cobre Atar BR	Fungicida/Bactericida	150,0	7	WP	IV	III	Albaugh	Inorgânico
43	Piridabem	Redshield 750	Fungicida	100,0	-	WP	III	III	Agrovant	Inorgânico
		Matrine	Acaricida biológico	75,0-100,0	-	SL	IV	IV	Dinagro	Alcalóide Matridínico
44	Pirimetanol	Sanmite EW	Inseticida/Acaricida de contato	50,0-100,0	7	EW	III	III	Iharabras	Piridazinona
45	Piraclostrobina	Mythos	Fungicida	1,0-1,5 L/ha	14	SC	III	II	Bayer	Anilinoimidina
45	Piraclostrobina	Comet	Fungicida	10,0-15,0	14	EC	II	II	Basf	Estrobilurina

# LISTA PIC - PRODUÇÃO INTEGRADA DE CITROS

## 1. GRADE DE INSETICIDAS, ACARICIDAS, FUNGICIDAS DA PRODUÇÃO INTEGRADA DOS CITROS - PIC BRASIL

Grade elaborada pelo Comitê de Agrotóxicos para a Produção Integrada de Citros-PIC Brasil, Atualizado em 15/04/2019

	Ingrediente Ativo	Produto Registrado	Classe	Dose Registro (mL ou g /100L)	Carência (dias)	Form	Tox	Amb	Registrante	Grupo Químico
46	Piriproxifem	Blade	Inseticida	6,25	14	EC	I	II	Tradecorp	Éter Piridiloxipropílico
		Cordial 100	Inseticida	6,25-75,0	14	EC	I	II	Sumitomo	Éter Piridiloxipropílico
		Epingle 100	Inseticida	6,25-100,0	14	EC	I	II	Sumitomo	Éter Piridiloxipropílico
		Porcel 100 EC	Inseticida	6,25-100,0	14	EC	II	II	Rotam	Éter Piridiloxipropílico
		Tiger 100 EC	Inseticida	6,25-100,0	14	EC	I	II	Sumitomo	Éter Piridiloxipropílico
47	Propargito	Omite 720 EC	Acaricida	100 mL	7	EC	I	II	Arysta	Sulfito de alquila
48	Tebuconazol	AUG 137	Fungicida	60,0	20	EC	I	II	Avgust	Triazol
		Egan	Fungicida	75,0	20	EC	I	I	Albaugh	Triazol
		Keyzol EC	Fungicida	60,0	20	EC	I	II	Avgust	Triazol
		Produtorbr	Fungicida	75,0	20	EC	I	II	Ouro Fino	Triazol
49	Tebufenozida	Mimic 240 SC	Inseticida	40,0-50,0	7	SC	IV	III	Iharabras	Diacilhidrazina
50	Teflubenzuron	Nomolt 150	Inseticida	25-30	28	SC	IV	II	Basf	Benzoiluréias
51	Tiabendazol*	Tecto SC	Fungicida	103,0-1030,0	-	SC	III	II	Syngenta	Benzimidazol
52	Tiametoxam	Actara 250 WG	Inseticida	20,0 ou 3,0 g/planta	14fol.-180sol.	WG	III	III	Syngenta	Neonicotinóide
53	Trifloxistrobina	Flint 500 WG	Fungicida	10,0	14	WG	III	II	Bayer	Estrobilurina
54	Trifloxistrobina + Tebuconazol	Nativo	Fungicida	0,6-0,8 L/ha	20	SC	III	II	Bayer	Estrobilurina + Triazol
55	Zeta-Cipermetrina	Mustang 350 EC	Inseticida	5,0-10,0	3	EC	II	I	FMC	Piretróide

LISTA PIC - PRODUÇÃO INTEGRADA DE CITROS

2. GRADE DE HERBICIDAS DA PRODUÇÃO INTEGRADA DE CITROS - PIC BRASIL

Grade elaborada pelo Comitê de Agrotóxicos para a Produção Integrada de Citros-PIC Brasil, Atualizado em 15/04/2019

	Ingrediente Ativo	Produto Registrado	Classe	Dose Registro (mL ou g /100L)	Carência (dias)	Form	Tox	Amb	Registrante	Grupo Químico
1	Carfentrazona-Etílica	Affinity 400 EC	Herbicida	75,0-125,0 mL/ha+0,5% óleo Mineral	15	EC	II	II	FMC	Triazolona
		Aurora	Herbicida	75,0-125,0 mL/ha+0,5% óleo Mineral	15	EC	II	II	FMC	Triazolona
2	Dibrometo de Diquate	Helmoquat	Herbicida	1,5-2,5 L/ha	14	SL	I	II	Helm	Bipiridílio
		Reglone	Herbicida	1,5-2,5 L/ha	14	SL	I	II	Syngenta	Bipiridílio
3	Dicloreto de Paraquate	Flak 200 SL	Herbicida	1,5-2,0 L/ha	1	SL	I	III	Cropchem	Bipiridílio
		Gramoking	Herbicida	1,5-2,0 L/ha	1	SL	I	III	Rainbow	Bipiridílio
		Gramoxone 200	Herbicida	1,5-2,0 L/ha	1	SL	I	II	Syngenta	Bipiridílio
		Helmozone	Herbicida	1,5-2,0 L/ha	1	SL	I	II	Helm	Bipiridílio
		Laredo	Herbicida	1,5-2,0 L/ha	1	SL	I	II	Helm	Bipiridílio
		Nuquat	Herbicida	1,5-2,0 L/ha	1	SL	I	III	Nufarm	Bipiridílio
		Orbit	Herbicida	1,5-2,0 L/ha	1	SL	I	II	Sinon	Bipiridílio
		Paradox	Herbicida	1,5-3,0 L/ha	7	SL	I	II	Sinon	Bipiridílio
		Paraquate Alta 200 SL	Herbicida	1,5-2,0 L/ha	1	SL	I	III	Alta	Bipiridílio
		Quatdown	Herbicida	1,5-2,0 L/ha	1	SL	I	III	Rainbow	Bipiridílio
		Sprayquat	Herbicida	1,5-2,0 L/ha	1	SL	I	III	Rainbow	Bipiridílio
4	Diuron	Cention SC	Herbicida	3,6-6,4 L/ha	60	SC	III	II	Lanxess	Uréia
		Diuron Fersol 500 SC	Herbicida	1,8-3,5 kg/ha	60	SC	II	II	Nortox	Uréia
		Diuron Nortox	Herbicida	2,0-4,0 L/ha	110	WP	III	II	Nortox	Uréia
		Diuron Nortox 500 SC	Herbicida	3,2-6,4 L/ha	110	SC	III	II	Nortox	Uréia
		Herburon 500 BR	Herbicida	3,2-6,4 L/ha	60	SC	III	II	Adama	Uréia
	Karmex	Herbicida	2,0-4,0 kg/ha	60	WG	III	II	Adama	Uréia	
5	Diuron+Dicloreto de Paraquate	Gramocil	Herbicida	2,0 L/ha	60	SC	I	II	Syngenta	Uréia + bipiridílio
6	Diuron+Glifosato	Glydur	Herbicida	3,0 L/ha	60	SC	III	II	Adama	Glicina Substituída + Uréia
		Tropuron	Herbicida	5,0-7,0 L/ha	60	SC	III	II	Adama	Glicina Substituída + Uréia
7	Flumioxazina	Flumyzin 500	Herbicida	50,0-240,0 g/ha	7	WP	II	III	Sumitomo	Ciclohexenodicarboximida
		Flumyzin 500 SC	Herbicida	50,0-240,0 mL/ha	7	SC	IV	III	Sumitomo	Ciclohexenodicarboximida
		Sumisoya	Herbicida	50,0-240,0 g/ha	7	WP	II	III	Sumitomo	Ciclohexenodicarboximida
		Sumisoya 500 SC	Herbicida	50,0-240,0 mL/ha	7	SC	IV	III	Sumitomo	Ciclohexenodicarboximida
		Sumyzin 500 SC	Herbicida	50,0-240,0 mL/ha	7	SC	IV	III	Sumitomo	Ciclohexenodicarboximida
8	Glifosato, Glifosato sal de Isopropilamina	Astral	Herbicida	0,5-6,0 L/ha	30	SL	I	III	Prentiss	Glicina Substituída
		Credit	Herbicida	0,5-6,0 L/ha	17	SL	III	III	Nufarm	Glicina Substituída
		Crucial	Herbicida	1,0-4,0 L/ha	30	SL	I	III	Nufarm	Glicina Substituída
		Direct	Herbicida	0,5-3,5 g/ha	30	WG	III	III	Monsanto	Glicina Substituída
		Fusta WG	Herbicida	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glicina Substituída
		Gli Ouro	Herbicida	1,0-5,0 L/ha	30	SL	III	III	Ouro Fino	Glicina Substituída
		Gli Over	Herbicida	1,0-5,0 L/ha	30	SL	III	III	Iharabras	Glicina Substituída
		Gliato	Herbicida	1,0-5,0 L/ha	30	SL	II	III	Prentiss	Glicina Substituída
		Gliforte	Herbicida	0,5-3,0 L/ha	30	SP	II	III	Tundra	Glicina Substituída
		Glifosato 480 Agripec	Herbicida	1,0-6,0 L/ha	30	SL	I	III	Nufarm	Glicina Substituída
		Glifosato 480 Helm	Herbicida	1,0-4,0 L/ha	30	SL	IV	III	Helm	Glicina Substituída
		Glifosato Agripec 720 WG	Herbicida	0,5-2,5 kg/ha	30	WG	II	III	Nufarm	Glicina Substituída
		Glifosato Alkagro	Herbicida	2,0-5,0 L/ha	30	SL	III	III	Alkagro	Glicina Substituída
		Glifosato Atanor	Herbicida	1,0-6,0 L/ha	30	SL	III	III	Albaugh	Glicina Substituída
Glifosato Atar	Herbicida	1,0-6,0 L/ha	30	SL	III	III	Albaugh	Glicina Substituída		

LISTA PIC - PRODUÇÃO INTEGRADA DE CITROS

2. GRADE DE HERBICIDAS DA PRODUÇÃO INTEGRADA DE CITROS - PIC BRASIL

Grade elaborada pelo Comitê de Agrotóxicos para a Produção Integrada de Citros-PIC Brasil, Atualizado em 15/04/2019

	Ingrediente Ativo	Produto Registrado	Classe	Dose Registro (mL ou g /100L)	Carência (dias)	Form	Tox	Amb	Registrante	Grupo Químico
8	Glifosato, Glifosato sal de Isopropilamina	Glifosato Atar 48	Herbicida	1,0-6,0 L/ha	30	SL	III	III	Albaugh	Glicina Substituída
		Glifosato CCAB 480 SL	Herbicida	0,75-5,0 L/ha	30	SL	II	III	CCAB Agro	Glicina Substituída
		Glifosato CCAB BR	Herbicida	0,5-6,0 L/ha	30	AL	I	III	CCAB Agro	Glicina Substituída
		Glifosato IPA 480 Rainbow	Herbicida	1,0-6,0 L/ha	30	SL	I	III	Rainbow	Glicina Substituída
		Glifosato Nortox	Herbicida	1,0-6,0 L/ha	30	SL	III	III	Nortox	Glicina Substituída
		Glifosato Nortox 480 BR	Herbicida	1,0-5,0 L/ha	30	SL	III	III	Nortox	Glicina Substituída
		Glifosato Nortox 480 SL	Herbicida	2,0-6,0 L/ha	30	SL	III	III	Nortox	Glicina Substituída
		Glifosato Nortox WG	Herbicida	0,5-2,5 kg/ha	30	WG	IV	III	Nortox	Glicina Substituída
		Glifosato Nutritop	Herbicida	1,0-5,0 L/ha	30	SL	III	III	Cropchem	Glicina Substituída
		Glifoxin	Herbicida	1,0-4,0 L/ha	30	SL	III	III	Helm	Glicina Substituída
		Glister	Herbicida	1,0-4,0 L/ha	30	SL	II	III	Sinon	Glicina Substituída
		GLI-UP 480 SL	Herbicida	1,0-5,0 L/ha	30	SL	III	III	Cropchem	Glicina Substituída
		GLI-UP 720 WG	Herbicida	0,5-3,5 kg/ha	30	WG	III	III	Cropchem	Glicina Substituída
		Gliz 480 SL	Herbicida	1,0-6,0 L/ha	30	SL	III	III	Dow	Glicina Substituída
		Gliz Plus	Herbicida	1,0-6,0 L/ha	30	SL	II	III	Dow	Glicina Substituída
		Glizmax Prime	Herbicida	0,75-4,5 L/ha	30	SL	III	III	Dow	Glicina Substituída
		Glyox	Herbicida	1,0-6,0 L/ha	30	SL	IV	III	Nortox	Glicina Substituída
		Glyphon	Herbicida	1,5-6,0 L/ha	30	SL	I	III	Nortox	Glicina Substituída
		Glyphotal	Herbicida	0,75-5,0 L/ha	30	SL	II	III	UPL	Glicina Substituída
		Glyphotal TR	Herbicida	1,0-4,5 L/ha	30	SL	II	III	UPL	Glicina Substituída
		Glyphotal WG	Herbicida	0,75-3,0 kg/ha	30	WG	III	III	United Phosphorus	Glicina Substituída
		Mademato	Herbicida	1,0-5,0 L/ha	30	SL	I	III	DIPIL	Glicina Substituída
		Nufosate	Herbicida	0,5-6,0 L/ha	30	SL	III	III	Nufarm	Glicina Substituída
		Nufosate BR	Herbicida	1,0-5,0 L/ha	30	SL	II	III	Nufarm	Glicina Substituída
		Nufosate WG	Herbicida	0,5-3,5 kg/ha	30	SL	III	III	Nufarm	Glicina Substituída
		Pilarsato	Herbicida	1,0-5,0 L/ha	30	SL	I	III	Pilarquim	Glicina Substituída
		Polaris	Herbicida	0,5-5,0 L/ha	30	SL	IV	III	Du Pont	Glicina Substituída
		Potensato	Herbicida	0,5-5,0 L/ha	30	SL	III	III	Stockton	Glicina Substituída
		Preciso	Herbicida	0,5-3,5 L/ha	30	WG	III	III	Albaugh	Glicina Substituída
		Pride	Herbicida	0,5-6,0 L/ha	30	SL	I	III	Iharabras	Glicina Substituída
		Radar	Herbicida	0,5-5,0 L/ha	30	SL	III	III	Monsanto	Glicina Substituída
		Radar WG	Herbicida	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glicina Substituída
		Ridover	Herbicida	0,5-3,5 kg/ha	30	WG	III	III	Rainbow	Glicina Substituída
		Rodeo	Herbicida	1,0-4,0 L/ha	30	SL	IV	III	Monsanto	Glicina Substituída
		Roundup Original	Herbicida	0,5-12,0 L/ha	30	SL	III	III	Monsanto	Glicina Substituída
		Roundup Original DI	Herbicida	1,0-6,0 L / ha	30	SL	II	III	Monsanto	Glicina Substituída
		Roundup Transorb	Herbicida	0,75-4,5 L/ha	30	SL	II	III	Monsanto	Glicina Substituída
		Roundup WG	Herbicida	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glicina Substituída
		Rustler	Herbicida	0,5-5,0 L/ha	30	SL	III	III	Monsanto	Glicina Substituída
		Rustler WG	Herbicida	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glicina Substituída
		Shadow	Herbicida	1,0-6,0 L/ha	30	SL	III	III	Albaugh	Glicina Substituída
		Shadow 480 SL	Herbicida	1,0-5,0 L/ha	30	SL	III	III	Albaugh	Glicina Substituída
		Soldier	Herbicida	0,50-3,5	30	WG	III	III	Rainbow	Glicina Substituída
		Stinger	Herbicida	0,5-5,0 L/ha	30	SL	IV	III	Monsanto	Glicina Substituída
		Stinger WG	Herbicida	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glicina Substituída
Sumô	Herbicida	1,0-5,0 L/ha	30	SL	III	III	Pilarquim	Glicina Substituída		

# LISTA PIC - PRODUÇÃO INTEGRADA DE CITROS

## 2. GRADE DE HERBICIDAS DA PRODUÇÃO INTEGRADA DE CITROS - PIC BRASIL

Grade elaborada pelo Comitê de Agrotóxicos para a Produção Integrada de Citros-PIC Brasil, Atualizado em 15/04/2019

	Ingrediente Ativo	Produto Registrado	Classe	Dose Registro (mL ou g /100L)	Carência (dias)	Form	Tox	Amb	Registrante	Grupo Químico
8	Glifosato, Glifosato sal de Isopropilamina	Teardown	Herbicida	1,0-4,0 L/ha	30	SL	II	III	Sinon	Glicina Substituída
		Templo	Herbicida	1,0-4,0 L/ha	30	SL	III	III	Ourofino	Glicina Substituída
		Trop	Herbicida	1,0-6,0 L/ha	30	SL	III	III	Adama	Glicina Substituída
		Tupan 720 WG	Herbicida	0,5-3,5 kg/ha	30	WG	III	III	Cropchem	Glicina Substituída
		Zapp QI 620	Herbicida	0,7-4,2 L/ha	30	SL	III	III	Syngenta	Glicina Substituída
9	Glifosato - Sal de Potássio	Xeque Mate	Herbicida	0,7-4,2 L/ha	30	SL	III	III	Iharabras	Glicina Substituída
10	Glufozinato - Sal de Amônio	Finale	Herbicida	2,0 L/ha	40	SG	I	III	Bayer	Homoalanina Substituída
		Liberty BCS	Herbicida	2,0 L/ha	40	SL	I	II	Bayer	Homoalanina Substituída
		Patrol SL	Herbicida	2,0 L/ha	40	SL	I	III	Adama	Homoalanina Substituída
11	Indaziflam	Alion	Herbicida	150-200 mL/ha	35	SC	III	III	Bayer	Alquilazina
12	Saflufenacil	Heat	Herbicida	35-70 g/ha	7	WG	III	III	Basf	Uracila



LISTA PIC - PRODUÇÃO INTEGRADA DE CITROS

3. HORMÔNIOS VEGETAIS E ATIVADORES DE PLANTA UTILIZADOS NA PRODUÇÃO INTEGRADA DE CITROS-PIC BRASIL

Grade elaborada pelo Comitê de Agrotóxicos para a Produção Integrada de Citros-PIC Brasil, Atualizado em 15/04/2019

	Ingrediente Ativo	Produto Registrado	Classe	Dose Registro (mL ou g /100L)	Carência (dias)	Form	Tox	Amb	Registrante	Grupo Químico
1	Ácido Giberélico	Pro-Gibb	Regulador de crescimento	400 g/2000 L	s/r	SP	II	IV	Sumitomo	Giberelina
		Progibb 400	Regulador de crescimento	6,25	s/r	WG	III	IV	Sumitomo	Giberelina
2	Ácido 4-indol-3-butírico + Ác. giberélico (GA3) + Cinetina	Stimulate	Regulador de crescimento	1 L/ha	s/r	SL	IV	IV	Stoller	ác. Indolalcanóico + giberelina + citocinina
3	Acibenzolar - S - Metílico	Bion 500 WG	Ativador de Plantas	80,0	s/r	WG	III	III	Syngenta	Benzotiadiazol

4- FERÔMONIOS E FORMICIDAS UTILIZADOS NA PRODUÇÃO INTEGRADA DE CITROS-PIC BRASIL

Grade elaborada pelo Comitê de Agrotóxicos para a Produção Integrada de Citros-PIC Brasil, Atualizado em 15/04/2019

	Ingrediente Ativo	Produto Registrado	Classe	Dose Registro (mL ou g /100L)	Carência (dias)	Form	Tox	Amb	Registrante	Grupo Químico
1	(E)-8-Dodecenol + Acetato de (E)-8-dodecenila	Ferocitrus Furão	Feromônio	1 armadilha/10 há ou 1 armadilha/3000-3500 Plantas	-	FF	IV	IV	Coopercitrus	álcool insaturado + acetato insaturado
2	Bifentrina	Bistar	Formicida	0,38 mL/m <sup>2</sup>	nd	KN	IV	II	FMC	Piretroide
		Bistar UBV	Formicida	5,0 mL/m <sup>2</sup>	nd	UL	IV	II	FMC	Piretroide
3	Trimedlure	Bioceratitis	Feromônio	1 armadilha/3 há ou 1 armadilha/ha (em áreas irregulares)	-	GE	IV	-	Bio Controle	Ésteres Saturados
		Bio Trimedlure	Feromônio	1 armadilha/ha	-	GE	IV	-	Bio Controle	Ésteres Saturados
		Iscalure TML Plug	Feromônio	1 armadilha/ha	-	GE	-	-	ISCA tecnologias	Ésteres Saturados
4	Fipronil	Blitz	Formicida	5,0-10,0 g/m <sup>2</sup>	nd	GB	IV	II	Basf	Pirazol
5	Clorpirifós	Lakree Fogging	Formicida	4,0 mL/m <sup>2</sup>	nd	HN	III	II	Dow	Organofosforado
		Landrin Pó	Inseticida	5,0-30,0 g/m <sup>2</sup>	nd	ED	II	II	Landrin	Organofosforado
6	Sulfluramida	Fluramim	Formicida	6,0-30,0 g/m <sup>2</sup>	nd	GB	IV	II	Adama	Sulfonamida Fluoroalifática
		Formicida Gran. Dinagro-S	Formicida	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Dinagro	Sulfonamida Fluoroalifática
		Formicida Gran. Pikapau-S	Formicida/Inseticida	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	São Vicente	Sulfonamida Fluoroalifática
		Fortmex-S	Formicida/Inseticida	6,0-8,0 g/m <sup>2</sup>	nd	GB	IV	III	Bio Soja	Sulfonamida Fluoroalifática
		Grão Verde AG	Formicida	6,0-10,0 g/m <sup>2</sup>	nd	GB	III	III	DIPIL	Sulfonamida Fluoroalifática
		Isca Formicida Atta Mex-S	Formicida	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Unibrás	Sulfonamida Fluoroalifática
		Isca Formicida Exatta	Formicida	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Legisnovo	Sulfonamida Fluoroalifática
		Isca Tamandua Bandeira-S	Formicida/Inseticida	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Bio Soja	Sulfonamida Fluoroalifática
		Mirex-S	Formicida	6,0-20,0 g/m <sup>2</sup>	nd	GB	IV	III	Atta Kill	Sulfonamida Fluoroalifática
		Mirex-S 2	Formicida	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Atta Kill	Sulfonamida Fluoroalifática
Mirex-S Max	Formicida	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Atta Kill	Sulfonamida Fluoroalifática		

LISTA PIC - PRODUÇÃO INTEGRADA DE CITROS

5. AGENTES BIOLÓGICOS UTILIZADOS NA PRODUÇÃO INTEGRADA DE CITROS-PIC BRASIL

Grade elaborada pelo Comitê de Agrotóxicos para a Produção Integrada de Citros-PIC Brasil, Atualizado em 15/04/2019

	Agente Biológico	Produto Registrado	Classe	Dose Registro (mL ou g /100L)	Carência (dias)	Form	Tox	Amb	Registrante	Classificação
1	<i>Bacillus amyloliquefaciens</i>	Duravel	Fungicida Microbiológico	0,5-1,0 kg/ha	s/r	WP	III	IV	Basf	Biológico
		Eco-Shot	Fungicida Microbiológico	0,1-4,0 kg	s/r	WG	III	IV	Iharabras	Biológico
2	<i>Bacillus subtilis</i>	Serenade	Bactericida/Fungicida microbiológico	2,0-4,0 L/ha	s/r	SC	III	IV	Bayer	Biológico
3	<i>Bacillus subtilis</i> + <i>Bacillus licheniformis</i>	Quartzo	Nematicida Microbiológico	130-200 g/ha	s/r	WS	III	IV	FMC	Biológico
4	<i>Bacillus thuringiensis</i>	Able	Inseticida Biológico	50,0	s/r	SC	III	IV	Sipcam	Biológico
		Agree	Inseticida Biológico	50,0	s/r	WP	III	IV	Bio Controle	Biológico
		Bac-Control WP	Inseticida Biológico	50,0	s/r	WP	IV	IV	Vector Control	Biológico
		BtControl	Inseticida Biológico	500,0-750,0 g/ha	s/r	SC	IV	IV	Simbiose	Biológico
		Costar	Inseticida Microbiológico	40-60	s/r	WG	I	IV	Iharabras	Biológico
		Dipel	Inseticida Biológico	1-1,5 L/2000 L	s/r	SC	IV	IV	Sumitomo	Biológico
		Dipel WG	Inseticida Biológico	25,0-37,5	s/r	WG	II	IV	Sumitomo	Biológico
		Dipel WP	Inseticida Biológico	50,0	s/r	WP	II	IV	Sumitomo	Biológico
		Helymax EC	Inseticida Microbiológico	33-40,5 mL	s/r	EC	IV	IV	Ballagro	Biológico
		Thuricide	Inseticida Microbiológico	30,0	s/r	WP	IV	IV	Bio Controle	Biológico
5	<i>Beauveria bassiana</i>	Thuricide SC	Inseticida Microbiológico	1000-2000 mL/ha	s/r	SC	II	IV	Mitsui	Biológico
		Ballvéria	Inseticida Microbiológico	0,15-8,0 kg/ha	s/r	WP	IV	IV	Ballagro	Biológico
6	<i>Isaria fumosorosea</i>	BeauveControl	Inseticida Microbiológico	375-4000 g/ha	s/r	WP	IV	IV	Simbiose	Biológico
		Bovemax EC	Inseticida Biológico	1,5-2,0 L/ha	s/r	EC	IV	IV	Novozymes	Biológico
		Boveril WP PL 63	Inseticida Microbiológico	2,0-20 kg/ha	s/r	WP	III	IV	Koppert	Biológico
7	<i>Metarhizium anisopliae</i>	Challenger	Inseticida Microbiológico	100,0-400,0	s/r	SC	III	IV	Koppert	Biológico
		Puma	Inseticida Microbiológico	1000-1500 mL/ha	s/r	SC	III	IV	Koppert	Biológico
8	<i>Neoseiulus californicus</i>	Metarril WP E9	Inseticida Microbiológico	500,0-750,0 g/ha	s/r	WP	IV	IV	Koppert	Biológico
		Methacontrol	Inseticida Biológico	1,7-26,7 kg/ha	s/r	WP	IV	IV	Simbiose	Biológico
		Metiê	Inseticida Microbiológico	0,075-2,0 kg/ha	s/r	WP	IV	IV	Ballagro	Biológico
9	<i>Paecilomyces lilacinus</i>	Spical	Acaricida Biológico	20.000 ácaros/ha	s/r	Ácaros vivos	-	IV	Koppert	Biológico
10	<i>Trichoderma harzianum</i>	Nemat	Nematicida Microbiológico	100,0-600,0 g/ha	s/r	WP	IV	IV	Ballagro	Biológico
		Ecotrich	Fungicida Microbiológico	0,15-0,25 kg/ha	s/r	WP	IV	IV	Ballagro	Biológico
		StimuControl	Fungicida Biológico	1,5-2,5 L/ha	s/r	SC	III	IV	Simbiose	Biológico
11	<i>Trichogramma pretiosum</i>	Trichodermil SC 1306	Fungicida/ Nematicida Biológico	0,5-1,0 L/ha	s/r	SC	III	IV	Koppert	Biológico
		Hunter	Agente Biológico de Controle	100.000-750.000 adultos/ha	s/r	Insetos Vivos	-	IV	Koppert	Biológico

6. AGROQUÍMICOS DE USO ALTERNATIVO UTILIZADOS NA PRODUÇÃO INTEGRADA DE CITROS - PIC BRASIL

Grade elaborada pelo Comitê de Agrotóxicos para a Produção Integrada de Citros-PIC Brasil, Atualizado em 15/04/2019

	Produto	Composição	Classe	Dose de Registro	Carência (d)	Grupo Químico
1	Calda Sulfocálcica	Enxofre + cal virgem + água	Fungicida/Inctic.Acaric.	1,0 L / 30-50 L	-	-
2	Calda Bordalesa	Sulfato de cobre + cal virgem + água	Fungicida	0,6 a 1% / 100 L	-	-
3	Pasta Bordalesa	Sulfato de cobre + cal virgem + água	Fungicida	Pincelamento	-	-

## LISTA PIC - PRODUÇÃO INTEGRADA DE CITROS

LEGENDAS	
<b>CB</b>	Isca Concentrada
<b>DC</b>	Concentrado Dispersível
<b>EC/CE</b>	Concentrado Emulsionável
<b>ED</b>	Líquido Eletro Aplicável
<b>EW</b>	Emulsão Óleo em Água
<b>FF</b>	Fumigante em Pastilhas
<b>GB</b>	Isca Granulada
<b>GE</b>	Gerador de Gás
<b>GR</b>	Granulado
<b>HN</b>	Concentrado Termo Nebulizável
<b>KN</b>	Concentrado Termo Nebulizável à Frio
<b>PA</b>	Pasta
<b>SC</b>	Solução Concentrada
<b>SG</b>	Granulado Solúvel
<b>SL</b>	Concentrado Solúvel
<b>SP</b>	Pó Solúvel
<b>UL</b>	Ultra Baixo Volume
<b>WG</b>	Granulos Dispersíveis em Água
<b>WP</b>	Pó Molhável
<b>WS</b>	Pó para Preparação de Pasta em Água

CLASSIFICAÇÃO DOS PRODUTOS QUANTO À TOXIDADE			
Toxicidade ao homem		Periculosidade Ambiental	
I	Prod. extremamente tóxico	I	Prod. altamente perigoso
II	Produto altamente tóxico	II	Prod. muito perigoso
III	Produto mediamente tóxico	III	Produto perigoso
IV	Produto pouco tóxico	IV	Produto tóxico

LEGENDAS	
<b>s/r</b>	Sem Restrição
<b>nd</b>	Não definido
<b>*</b>	Uso em tratamento pós-cilheita
<b>-</b>	Não Informado

PIC LIST - CITRUS INTEGRATED PRODUCTION

1. INSECTICIDES, ACARICIDES AND FUNGICIDES

List drawn up by the Committee of pesticides for the Citrus Integrated Production - PIC Brazil. Updated 15<sup>th</sup> april 2019

	ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harvest Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
1	Abamectin	Abadin 72 EC	Acaricide/Insecticide	3,75-7,5	7	EC	I	II	Cropchem	Avermectin
		Abamectin 72 EC Nortox	Acaricide/Insecticide	3,75-7,5	7	EC	I	II	Nortox	Avermectin
		Abamectin Nortox	Acaricide/Insecticide	15,0-30,0	7	EC	III	III	Nortox	Avermectin
		Abamectin Prentiss	Acaricide/Insecticide	20,0-30,0	7	EC	I	III	Prentiss	Avermectin
		Abamex	Acaricide/Insecticide	20,0	7	EC	I	III	Nufarm	Avermectin
		Abamex BR 18	Acaricide/Insecticide	20,0	7	EC	I	III	Nufarm	Avermectin
		Acaramik	Acaricide/Insecticide	15,0-30,0	7	EC	I	III	Rotam	Avermectin
		Banter	Acaricide/Insecticide	15,0-30,0	7	EC	I	II	UPL	Avermectin
		Batent	Acaricide/Insecticide	15,0-30,0	7	EC	I	III	UPL	Avermectin
		Boreal	Acaricide/Insecticide	10,0-30,0	7	EC	I	II	Tradecorp	Avermectin
		Grimectin	Acaricide/Insecticide	15,0-30,0	7	EC	I	III	Rotam	Avermectin
		Pausato	Acaricide/Insecticide	20,0-30,0	7	EC	I	III	Sinon	Avermectin
		Potenza Sinon	Acaricide/Insecticide	20,0-30,0	7	EC	I	III	Sinon	Avermectin
Rotamik	Acaricide/Insecticide	15,0-30,0	7	EC	I	III	Rotam	Avermectin		
2	Acetamiprid	Vertimec 18 EC	Insectic. /Acaric. /Nematic.	10,0-30,0	7	EC	III	II	Syngenta	Avermectin
		Convence	Insecticide	1,5-5,0 mL/tree	60	SL	II	III	Iharabras	Neonicotinoid
3	Acetamiprid + Bifenthrin	Mospilan WG	Insecticide	3,0-7,0	3	WG	III	II	Iharabras	Neonicotinoid
		Sperto	Insecticide	8,0-12,0	21	WG	III	I	UPL	Neonicotinoid + Pyrethroids
4	Acetamiprid + Pyriproxyfen	Privilege	Insecticide	2,5-7,5	14	OD	III	I	Iharabras	Neonicotinoid + Pyridyloxypropyl ether
5	Alpha-Cypermethrin + Teflubenzuron	Imunit	Insecticide	20-25 mL	15	SC	III	II	Basf	Pyrethroids + Benzoylurea
6	Azadirachtin	Azact CE	Insecticide/Fungicide	4,0 L/ha	-	EC	II	IV	LAC e Silva Agronegócios	Tetranortriterpenoid
		AzaMax	Insecticide	100,0-250,0	-	EC	III	IV	UPL	Tetranortriterpenoid
7	Azoxystrobin	Amistar WG	Fungicide	8,0-16,0	7	WG	IV	II	Syngenta	Strobilurin
		Vantigo	Fungicide	8,0-16,0	7	WG	IV	III	Syngenta	Strobilurin
8	Azoxystrobin + Difenconazole	Priori Top	Fungicide	20,0	7	SC	III	II	Syngenta	Strobilurin + Triazole
9	Azoxystrobin + Tebuconazole	Azimut	Fungicide	30,0-40,0	20	SC	III	II	Adama	Strobilurin + Triazole
		Helmstar Plus	Fungicide	0,7 L/ha	20	SC	II	II	Helm	Strobilurin + Triazole
10	Beta-cyfluthrin	Bulldock 125 SC	Insecticide	50-100mL/há	21	SC	II	II	Bayer	Pyrethroids
		Ducat	Insecticide	12,5-25,0	21	EC	II	II	Bayer	Pyrethroids
		Full	Insecticide	12,5-25,0	21	EC	II	II	Bayer	Pyrethroids
		Turbo	Insecticide	12,5-25,0	21	EC	II	II	Bayer	Pyrethroids
11	Bifenthrin	Seizer 100 EC	Acaricide/Insecticide	7,5-20,0	7	EC	III	II	Adama	Pyrethroids
		Talstar 100 CE	Acaricide/Insecticide	7,5-20,0	7	EC	III	III	FMC	Pyrethroids
12	Buprofezin	Applaud 250	Insecticide/Plant growth regulator	100,0-200,0	7	WP	III	III	Arysta	Thiadiazole-type
		Sensei	Insecticide	30-200	7	SC	III	III	Helm	Thiadiazole-type
13	Chlorantraniliprole + Abamectin	Voliam Targo	Acaricide/Insecticide	5,0-20,0	7	SC	II	II	Syngenta	Antranilamide + Avermectin
14	Chlorantraniliprole + Thiamethoxam	Durivo	Insecticide	1,0-2,0 mL/metro alt. Tree	14	SC	III	II	Syngenta	Antranilamide + Neonicotinoid

# PIC LIST - CITRUS INTEGRATED PRODUCTION

## 1. INSECTICIDES, ACARICIDES AND FUNGICIDES

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	ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harvest Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
15	Chlorpyrifos	Astro	Insecticide	100,0-150,0	21	EW	I	II	Bayer	Organophosphates
		CapatazBR	Acaricide/Insecticide	100,0-150,0	21	EC	I	I	Ouro Fino	Organophosphates
		Ciclone 48 EC	Acaricide/Insecticide	200,0	21	EC	I	II	Saptec	Organophosphates
		Clorpirifós Fersol 480 EC	Insecticide	100,0-200,0	21	EC	I	II	Fersol	Organophosphates
		Korplan 480 EC	Insecticide	100,0-200,0	21	EC	I	II	Nufarm	Organophosphates
		Lorsban 480 BR	Acaricide/Insecticide	100,0-200,0	21	EC	I	II	Dow	Organophosphates
		Nufos 480 EC	Insecticide	100,0-150,0	21	EC	I	II	FMC	Organophosphates
		Pyrinex 480 EC	Insecticide	200,0	21	EC	I	II	Adama	Organophosphates
		Record 480 EC	Insecticide	100,0-150,0	21	EC	I	I	Helm	Organophosphates
		Sabre	Insecticide	100,0-150,0	21	EW	III	II	Dow	Organophosphates
16	Copper hydroxide	Vexter	Acaricide/Insecticide	100,0-200,0	21	EC	II	II	Dow	Organophosphates
		Wild	Insecticide	100,0-200,0	21	EC	I	II	Albaugh	Organophosphates
16	Copper hydroxide	Auge	Fungicide	2,0-3,0 L/ha	s/r	SC	III	III	Oxiquímica	Inorganic
		Contact	Fungicide	0,85-1,7 Kg / ha ou 200,0	s/r	WP	IV	III	Mitsui	Inorganic
16	Copper hydroxide	Ellect	Fungicide	2,0-3,0 kg/ha	s/r	WP	I	III	Oxiquímica	Inorganic
		Garant	Bacteric./Fungic.	0,85-1,7 Kg/ha ou 200,0	s/r	WP	IV	II	Mitsui	Inorganic
		Garant BR	Bacteric./Fungic.	0,85-1,7 Kg/ha ou 200,0	7	WP	III	II	Du Pont	Inorganic
		Garra 450 WP	Fungicide	100,0-150,0	7	WP	I	III	Oxiquímica	Inorganic
		Kentan 40 WG	Fungicide	75,0-100,0	s/r	WG	I	II	Isagro	Inorganic
		Kocide WDG Bioactive	Bacteric./Fungic.	75,0-125,0	s/r	WG	III	II	Mitsui	Inorganic
		Supera	Fungicide	2,0-3,0 L/ha	s/r	SC	III	III	Oxiquímica	Inorganic
		Tutor	Fungicide	175,0-225,0	s/r	WG	II	III	Basf S.A.	Inorganic
17	Copper oxychloride	Agrinose	Bacteric./Fungic.	400,0	-	WP	III	II	Nufarm	Inorganic
		Cobox	Fungicide	250,0	7	WP	IV	III	Basf	Inorganic
		Cobox DF	Fungicide	250,0	7	WG	IV	III	Basf	Inorganic
		Cobre Fersol	Fungicide	300,0	-	WP	IV	III	Ameribrás	Inorganic
		Copsuper	Fungicide	150-200,0 ou 2-2,5 L/ha	-	SC	III	III	Oxiquímica	Inorganic
		Cupravit Azul BR	Fungicide	300,0	7	WP	IV	IV	Bayer	Inorganic
		Cupravit Verde	Fungicide	180,0	7	WP	IV	III	Bayer	Inorganic
		Cuprital 700	Bacteric./Fungic.	75,0-100,0	s/r	SC	II	III	Tradecorp	Inorganic
		Cuprocarb 350	Fungicide	200,0-300,0	7	WP	IV	III	Oxiquímica	Inorganic
		Cuprocarb 500	Fungicide	150,0-200,0	-	WP	IV	III	Oxiquímica	Inorganic
		Cupuran 500 PM	Bacteric./Fungic.	3 kg/ha	-	WP	IV	III	Mitsui	Inorganic
		Difere	Fungicide	3,0-4,0 L/ha	-	SC	III	III	Oxiquímica	Inorganic
		Fanavid 85	Fungicide	300,0-450,0	7	WP	III	III	Rizzi	Inorganic
		Fanavid Flowable	Fungicide	300,0-450,0	7	SC	IV	III	Rizzi	Inorganic
		Funguran Verde	Fungicide	100,0	-	WP	IV	II	Agrovant	Inorganic
		Fungitol Azul	Fungicide	275,0	7	WP	IV	III	Mitsui	Inorganic
		Fungitol Verde	Bacteric./Fungic.	150,0	7	WP	IV	III	Mitsui	Inorganic
		Neoram 37.5 WG	Fungicide	300,0	-	WG	I	II	Isagro	Inorganic
		Ramexane 850 PM	Fungicide	250,0	-	WP	IV	III	Sipcam	Inorganic
		Reconil	Bacteric./Fungic.	200,0	-	WP	IV	III	Albaugh	Inorganic
Recop	Fungicide	250,0	-	WP	IV	III	Albaugh	Inorganic		
Status	Fungicide	150,0-200,0 ou 2-2,5 L/ha	-	SC	III	III	Oxiquímica	Inorganic		
18	Cuprous oxide	Cobre Atar BR	Bacteric./Fungic.	150,0	7	WP	IV	III	Albaugh	Inorganic
		Redshield 750	Fungicide	100,0	-	WP	III	III	Agrovant	Inorganic

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	ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harvest Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
19	Cyflumetofen	Obny	Acaricide	40,0	7	SC	III	III	Arysta	Benzoyl acetronitrile
		Okay	Acaricide	40,0	7	SC	III	III	Iharabras	Benzoyl acetronitrile
20	Difenoconazole	Curygen EC	Fungicide	20,0	7	EC	I	II	Avgust	Triazole
		Difcor 250 EC	Fungicide	20,0	7	EC	I	II	Cross Link	Triazole
		Prisma Plus	Fungicide	20,0	7	EC	I	II	Helm	Triazole
		Score	Fungicide	20,0	7	EC	I	II	Syngenta	Triazole
		Volna 250 EC	Fungicide	20,0	7	EC	I	II	Avgust	Triazole
21	Diflubenzuron	Copa	Insecticide	500,0 g/ha	30	WP	III	III	BRA	benzoylurea
		Diflubenzuron 240 SC Crop	Acaricide/Insecticide	15-5-	30	SC	IV	II	Avgust	benzoylurea
		Difluchem 240 SC	Insecticide	25,0	30	SC	III	II	Helm	benzoylurea
		Diflurmax	Insecticide	25,0	30	SC	III	II	Helm	benzoylurea
		Dimilin	Insecticide	500,0 g/ha	30	WP	IV	III	Arysta	benzoylurea
		Du Dim	Insecticide	25,0	30	WP	I	III	Arysta	benzoylurea
		Herold SC	Acaricide/Insecticide	25,0-50,0	30	SC	IV	II	Avgust	benzoylurea
		Login	Insecticide	500,0 g/ha	30	WP	I	II	UPL	benzoylurea
Micromite 240 SC	Acaricide/Insecticide	15,0-50,0	30	SC	III	III	Arysta	benzoylurea		
22	Dimethoate	Agritoato 400	Insecticide	150,0	3	EC	I	II	Nufarm	Organophosphates
		Dimetoato 500 EC Nortox	Acaricide/Insecticide	80,0-300,0	3	EC	I	II	Nortox	Organophosphates
		Dimexion	Insecticide	100,0-500,0	3	EC	I	II	FMC	Organophosphates
		Tiomet 400 CE	Acaricide/Insecticide	100,0-500,0	3	EC	I	II	Sipcam	Organophosphates
23	Etofenprox	Safety	Insecticide	30,0-60,0	7	EC	III	III	Iharabras	pyrethroid ether
		Trebon 100 SC	Insecticide	0,01-0,025 L	7	SC	III	III	Sipcam	pyrethroid ether
24	Etozazole	Borneo	Acaricide	45,0	14	SC	II	III	Sumitomo	Dipheniloxazoline
		Smite	Acaricide	45,0	14	SC	II	III	Sumitomo	Dipheniloxazoline
25	Fenpropathrin	Danimen 300 EC	Acaricide/Insecticide	20,0-50,0	28	EC	I	II	Sumitomo	Pyrethroids
		Meothrin 300	Acaricide/Insecticide	20,0-50,0	28	EC	I	II	Sumitomo	Pyrethroids
		Sumirody 300	Acaricide/Insecticide	20,0-50,0	28	EC	I	II	Sumitomo	Pyrethroids
26	Fenpyroximate	Fujimite 50 SC	Acaricide	100,0	15	SC	II	I	Rotam	Pyrazole
		Ortus 50 SC	Acaricide	100,0	15	SC	II	II	Arysta	Pyrazole
27	Flufenoxuron	Cascade 100	Acaricide/Insecticide	30,0-50,0	15	EC	I	II	Basf	benzoylurea
28	Fluxapyroxad + Pyraclostrobin	Orkestra SC	Fungicide	10,0-15,0	14	SC	III	II	Basf	Carboxamide + Strobilurin
29	Formetanate hydrochloride	Dicarzol 500 SP	Acaricide/Insecticide	20, 0-25,0	21	SP	II	II	Cross Link	N-Methyl Carbamate
30	Fosetyl	Aliette	Fungicide	250,0	25	WP	IV	III	Bayer	Phosphonate
31	Hexythiazox	Savey WP	Acaricide	3,0	30	WP	II	II	Du Pont	Thiazolidine
32	Imazalil*	Imazacure 500 EC	Fungicide	200,0	3	EC	I	II	Defensive	Imidazole
		Magnate 500 EC	Fungicide	200,0	3	EC	I	II	Adama	Imidazole

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33	Imidacloprid	Bamako 700 WG	Insecticide	5,0 ou 0,5- 1 g/tree	21	WG	I	III	Rotam	Neonicotinoid
		Cigaral	Insecticide	5,0	21	WP	I	III	Anasac	Neonicotinoid
		Evidence 700 WG	Insecticide	0,5-10,0	21	WG	IV	III	Bayer	Neonicotinoid
		Galeão	Insecticide	5,0-10,0	21	WG	I	III	Helm	Neonicotinoid
		Granary	Insecticide	5,0-10,0	21	WG	III	III	Albaugh	Neonicotinoid
		Imaxi 700 WG	Insecticide	5,0 ou 0,5-1 g/tree	21	WG	I	III	Rotam	Neonicotinoid
		Imidacloprid 350 SC	Insecticide	9,0-11,0	21	SC	III	III	Rotam	Neonicotinoid
		Imidacloprid Nortox	Insecticide	10,0-300,0	21	SC	II	II	Nortox	Neonicotinoid
		Imidagold 700 WG	Insecticide	5,0-10,0	21	WG	III	III	UPL	Neonicotinoid
		Imidacloprid 700 WG HELM	Insecticide	5,0-10,0	21	WG	I	III	Helm	Neonicotinoid
		Provado 200 SC	Insecticide	15,0-50,0	21	SC	III	III	Bayer	Neonicotinoid
		Rotaprid 350 SC	Insecticide	9,0-11,0	21	SC	III	III	Rotam	Neonicotinoid
		Timon	Insecticide	15,0-50,0	21	SC	III	III	Bayer	Neonicotinoid
Warrant 700 WG	Insecticide	5,0	21	WG	III	III	FMC	Neonicotinoid		
Winner	Insecticide	2,5-5,0 mL/tree	21	SL	III	III	Bayer	Neonicotinoid		
34	Malathion	Malathion 1000 EC Cheminova	Insecticide	150,0-200,0	7	EC	I	II	FMC	Organophosphates
		Malathion Prentiss	Insecticide	300,0-400,0	7	EC	III	III	Prentiss	Organophosphates
35	Mineral Oil	Argenfrut RV	Insecticide/Fungicide	1000,0	s/r	EC	III	III	Agrovant	Aliphatic hydrocarbons
		Assist	Insectic./Fungic./Adjuv.	1.000,0-2.000,0	s/r	EC	IV	IV	Basf	Aliphatic hydrocarbons
		Dytrol	Insecticide/Adjuvant	1.000,0-2.000,0	s/r	EC	IV	III	Ameribrás	Aliphatic hydrocarbons
		Iharol	Insectic./Acaric./Adjuv.	1.000,0-2.000,0	s/r	EW	III	III	Iharabras	Aliphatic hydrocarbons
		Miner Oil	Insecticide/Adjuvant	1.000,0-1.500,0	s/r	EC	IV	III	Ameribrás	Aliphatic hydrocarbons
		Oppa BR EC	Insecticide/Adjuvant	1.000,0-1.500,0	s/r	EC	IV	III	Petrobrás	Aliphatic hydrocarbons
		Orix	Insecticide/Adjuvant	1.000,0-1.500,0	s/r	EW	IV	IV	Oxiquímica	Aliphatic hydrocarbons
		Purespray 15E	Acaricide	1000,0	s/r	SO	IV	III	IQ Soluções	Aliphatic hydrocarbons
Triona	Espalhante/Adjuvante	1.000,0-1.500,0	s/r	EW	IV	III	Basf	Aliphatic hydrocarbons		
36	Oxymatrine	Matrine	Biological Acaricide	75,0-100,0	-	SL	IV	IV	Dinagro	Matridin Alkaloid
37	Phosmet	Imidan 500 WP	Insecticide	25,0-150,0	20	WP	I	III	Cross Link	Organophosphates
38	Propargite	Omite 720 EC	Acaricide	100 mL	7	EC	I	II	Arysta	Alkyl sulphite
39	Pyraclostrobin	Comet	Fungicide	10,0-15,0	14	EC	II	II	Basf	Strobilurin
40	Pyridaben	Sanmite EW	Acaricide/Insecticide	50,0-100,0	7	EW	III	III	Iharabras	Pyridazinone
41	Pyrimethanil	Mythos	Fungicide	1,0-1,5 L/ha	14	SC	III	II	Bayer	anilinopyrimidines
42	Pyriproxyfen	Blade	Insecticide	6,25	14	EC	I	II	Tradecorp	Pyridyloxypropyl ether
		Cordial 100	Insecticide	6,25-75,0	14	EC	I	II	Sumitomo	Pyridyloxypropyl ether
		Epingle 100	Insecticide	6,25-100,0	14	EC	I	II	Sumitomo	Pyridyloxypropyl ether
		Porcel 100 EC	Insecticide	6,25-100,1	14	EC	II	II	Rotam	Pyridyloxypropyl ether
		Tiger 100 EC	Insecticide	6,25-100,0	14	EC	I	II	Sumitomo	Pyridyloxypropyl ether
43	Spinetoram	Delegate	Insecticide	5,0-10,0	1	WG	III	II	Dow	Spinosyns
44	Spinosad	Success*0.02 CB	Insecticide	1,0-1,6 L/ha	14	CB	III	III	Dow	Spinosyns
		Tracer	Insecticide	10,0-15,0	14	SC	III	III	Dow	Spinosyns
45	Spirodiclofen	Envidor	Acaricide	20,0-25,0	21	SC	III	III	Bayer	Ketoenols

PIC LIST - CITRUS INTEGRATED PRODUCTION

1. INSECTICIDES, ACARICIDES AND FUNGICIDES

List drawn up by the Committee of pesticides for the Citrus Integrated Production - PIC Brazil. Updated 15<sup>th</sup> april 2019

	ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harvest Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
46	Sulfur	Agrothio 800	Acaric./Fungic.	500,0-600,0	s/r	SC	IV	IV	Samaritá	Inorganic
		Cover DF	Acaric./Fungic.	300,0-500,0	s/r	WG	IV	IV	Basf	Inorganic
		Defend WDG	Acaricide	4,0 kg/ha	s/r	WG	IV	IV	Quimetal	Inorganic
		Enxofre Fersol 520 SC	Acaricide	240,0	s/r	SC	IV	IV	Ameribrás	Inorganic
		Kumulus DF	Acaric./Fungic.	300,0-500,0	s/r	WG	III	III	Basf	Inorganic
		Kumulus DF-AG	Acaric./Fungic.	300,0-500,0	s/r	WG	IV	IV	Basf	Inorganic
		Microsulfan 800 PM	Acaric./Fungic.	400,0	s/r	WG	IV	IV	Enro	Inorganic
		Microthiol Dispers WG	Acaricide	500,0	s/r	WG	IV	IV	UPL	Inorganic
		Microzol	Acaric./Fungic.	300,0	s/r	SC	IV	IV	Microquímica	Inorganic
		Nutrixofre 800	Acaric./Fungic.	500,0-600,0	s/r	SC	IV	IV	Samaritá	Inorganic
		Rapid	Acaricide	300,0	s/r	WP	IV	III	Dow	Inorganic
		Sulficamp	Acaric./Fungic.	600,0	s/r	WP	IV	III	Sipcam	Inorganic
		Sulflow SC	Acaricide	250,0-300,0	s/r	SC	IV	IV	Arysta	Inorganic
Sulfur 800	Acaricide	300,0	s/r	SC	IV	IV	Stoller	Inorganic		
Sulfure 750	Acaricide	125,0-250,0	s/r	SC	IV	IV	Bio Soja	Inorganic		
47	Tebuconazole	AUG 137	Fungicide	60,0	20	EC	I	II	Avgust	Triazole
		Egan	Fungicide	75,0	20	EC	I	I	Albaugh	Triazole
		Keyzol EC	Fungicide	60,0	20	EC	I	II	Avgust	Triazole
		Produtorbr	Fungicide	75,0	20	EC	I	II	Ouro Fino	Triazole
48	Tebufenozide	Mimic 240 SC	Insecticide	40,0-50,0	7	SC	IV	III	Iharabras	Benzoic acid hydrazide
49	Teflubenzuron	Nomolt 150	Insecticide	25-30	28	SC	IV	II	Basf	Benzoylurea
50	Thiamethoxam	Actara 250 WG	Insecticide	20,0 ou 3,0 g/tree	14fol.-180sol.	WG	III	III	Syngenta	Neonicotinoid
51	Tiabendazole*	Tecto SC	Fungicide	103,0-1030,0	-	SC	III	II	Syngenta	Benzimidazole
52	Trifloxystrobin	Flint 500 WG	Fungicide	10,0	14	WG	III	II	Bayer	Strobilurin
53	Trifloxystrobin + Tebuconazole	Nativo	Fungicide	0,6-0,8 L/ha	20	SC	III	II	Bayer	Strobilurin + Triazole
54	Vegetable oil	Agro Oil	Insecticide/Adjuvant	2.000,0-3.000,0	s/r	EC	IV	IV	Bio soja	Fatty acid esters
		Vision	Insecticide/Adjuvant	500-1000,00	s/r	EC	IV	IV	Oxiquímica	Fatty acid esters
		Fersoil	Insecticide/Adjuvant	500-1000,00	s/r	EC	IV	IV	Ameribrás	Fatty acid esters
		Graxol	Insecticide	2.000,0	s/r	EC	IV	IV	Agrária	Fatty acid esters
		Natur'l Óleo	Insecticide/Adjuvant	1.000,0-3.000,0	s/r	EW	IV	IV	Stoller	Fatty acid esters
		Óleo Vegetal Nortox	Insecticide/Adjuvant	2.000,0	s/r	EC	IV	IV	Nortox	Fatty acid esters
		Óleo Vegetal Samaritá	Insecticide/Adjuvant	2.000,0-3.000,0	s/r	EC	IV	IV	Bio soja	Fatty acid esters
		Quimióleo	Insecticide/Adjuvant	1.000,0-2.000,0	s/r	EW	IV	IV	Fênix Agro-Pecus	Fatty acid esters
Veget Oil	Insecticide	1.000	s/r	EC	IV	IV	Oxiquímica	Fatty acid esters		
55	Zeta-Cipermetrina	Mustang 350 EC	Insecticide	5,0-10,0	3	EC	II	I	FMC	Pyrethroids



PIC LIST - CITRUS INTEGRATED PRODUCTION

2. HERBICIDES

List drawn up by the Committee of pesticides for the Citrus Integrated Production - PIC Brazil. Updated 15<sup>th</sup> april 2019

	ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harvest Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
1	Carfentrazone-ethyl	Affinity 400 EC	Herbicide	75,0-125,0 mL/ha+0,5% oil	15	EC	II	II	FMC	Triazolone
		Aurora	Herbicide	75,0-125,0 mL/ha+0,5% oil	15	EC	II	II	FMC	Triazolone
2	Diquat dibromide	Helmoquat	Herbicide	1,5-2,5 L/ha	14	SL	I	II	Helm	Bipyridylum
		Reglone	Herbicide	1,5-2,5 L/ha	14	SL	I	II	Syngenta	Bipyridylum
3	Diuron	Cention SC	Herbicide	3,6-6,4 L/ha	60	SC	III	II	Lanxess	Urea
		Diuron Fersol 500 SC	Herbicide	1,8-3,5 kg/ha	60	SC	II	II	Nortox	Urea
		Diuron Nortox	Herbicide	2,0-4,0 L/ha	110	WP	III	II	Nortox	Urea
		Diuron Nortox 500 SC	Herbicide	3,2-6,4 L/ha	110	SC	III	II	Nortox	Urea
		Herburon 500 BR	Herbicide	3,2-6,4 L/ha	60	SC	III	II	Adama	Urea
4	Diuron+Glyphosate	Karmex	Herbicide	2,0-4,0 kg/ha	60	WG	III	II	Adama	Urea
		Glydur	Herbicide	3,0 L/ha	60	SC	III	II	Adama	Glycine derivatives + Urea
5	Diuron+Paraquat dichloride	Tropuron	Herbicide	5,0-7,0 L/ha	60	SC	III	II	Adama	Glycine derivatives + Urea
		Gramocil	Herbicide	2,0 L/ha	60	SC	I	II	Syngenta	Urea + Bipyridylum
6	Flumioxazin	Flumyzin 500	Herbicide	50,0-240,0 g/ha	7	WP	II	III	Sumitomo	Cyclohexenodicarboximide
		Flumyzin 500 SC	Herbicide	50,0-240,0 mL/ha	7	SC	IV	III	Sumitomo	Cyclohexenodicarboximide
		Sumisoya	Herbicide	50,0-240,0 g/ha	7	WP	II	III	Sumitomo	Cyclohexenodicarboximide
		Sumisoya 500 SC	Herbicide	50,0-240,0 mL/ha	7	SC	IV	III	Sumitomo	Cyclohexenodicarboximide
		Sumyzin 500 SC	Herbicide	50,0-240,0 mL/ha	7	SC	IV	III	Sumitomo	Cyclohexenodicarboximide
7	Glufosinate-ammonium	Finale	Herbicide	2,0 L/ha	40	SG	I	III	Bayer	Thiocarbamates
		Patrol SL	Herbicide	2,0 L/ha	40	SL	I	III	Adama	Thiocarbamates
		Liberty BCS	Herbicide	2,0 L/ha	40	SL	I	II	Bayer	Thiocarbamates
8	Glyphosate - Potassium Salt	Xeque Mate	Herbicide	0,7-4,2 L/ha	30	SL	III	III	Iharabras	Glycine derivatives
9	Glyphosate; Glifosato-isopropylammonium	Astral	Herbicide	0,5-6,0 L/ha	30	SL	I	III	Prentiss	Glycine derivatives
		Credit	Herbicide	0,5-6,0 L/ha	17	SL	III	III	Nufarm	Glycine derivatives
		Crucial	Herbicide	1,0-4,0 L/ha	30	SL	I	III	Nufarm	Glycine derivatives
		Direct	Herbicide	0,5-3,5 g/ha	30	WG	III	III	Monsanto	Glycine derivatives
		Fusta WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glycine derivatives
		Gli Ouro	Herbicide	1,0-5,0 L/ha	30	SL	III	III	Ouro Fino	Glycine derivatives
		Gli Over	Herbicide	1,0-5,0 L/ha	30	SL	III	III	Iharabras	Glycine derivatives
		Gliato	Herbicide	1,0-5,0 L/ha	30	SL	II	III	Prentiss	Glycine derivatives
		Gliforte	Herbicide	0,5-3,0 L/ha	30	SP	II	III	Tundra	Glycine derivatives
		Glifosato Agripec 720 WG	Herbicide	0,5-2,5 kg/ha	30	WG	II	III	Nufarm	Glycine derivatives
		Glifosato Atanor	Herbicide	1,0-6,0 L / ha	30	SL	III	III	Albaugh	Glycine derivatives
		Shadow	Herbicide	1,0-6,0 L / ha	30	SL	III	III	Albaugh	Glycine derivatives
		Glifosato Atar	Herbicide	1,0-6,0 L / ha	30	SL	III	III	Albaugh	Glycine derivatives
		Glifosato Atar 48	Herbicide	1,0-6,0 L / ha	30	SL	III	III	Albaugh	Glycine derivatives
		Glifosato Alkagro	Herbicide	2,0-5,0 L/ha	30	SL	III	III	Alkagro	Glycine derivatives
		Glifosato CCAB BR	Herbicide	0,5-6,0 L/ha	30	AL	I	III	CCAB Agro	Glycine derivatives
		Glifosato CCAB 480 SL	Herbicide	0,75-5,0 L/ha	30	SL	II	III	CCAB Agro	Glycine derivatives
		Glifosato Nortox	Herbicide	1,0-6,0 L/ha	30	SL	III	III	Nortox	Glycine derivatives
		Glifosato Nortox WG	Herbicide	0,5-2,5 kg/ha	30	WG	IV	III	Nortox	Glycine derivatives
		Glifosato Nortox 480 BR	Herbicide	1,0-5,0 L/ha	30	SL	III	III	Nortox	Glycine derivatives
Glifosato Nortox 480 SL	Herbicide	2,0-6,0 L/ha	30	SL	III	III	Nortox	Glycine derivatives		
Nufosate	Herbicide	0,5-6,0 L/ha	30	SL	III	III	Nufarm	Glycine derivatives		
Nufosate BR	Herbicide	1,0-5,0 L/ha	30	SL	II	III	Nufarm	Glycine derivatives		

PIC LIST - CITRUS INTEGRATED PRODUCTION

2. HERBICIDES

List drawn up by the Committee of pesticides for the Citrus Integrated Production - PIC Brazil. Updated 15<sup>th</sup> april 2019

	ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harverst Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
9	Glyphosate; Glifosato-isopropylammonium	Glifosato Nutritop	Herbicide	1,0-5,0 L/ha	30	SL	III	III	Cropchem	Glycine derivatives
		Glifosato 480 Agripec	Herbicide	1,0-6,0 L/ha	30	SL	I	III	Nufarm	Glycine derivatives
		Glifosato 480 Helm	Herbicide	1,0-4,0 L/ha	30	SL	IV	III	Helm	Glycine derivatives
		Glifosato IPA 480 Rainbow	Herbicide	1,0-6,0 L/ha	nd	SL	I	III	Rainbow	Glycine derivatives
		Glifoxin	Herbicide	1,0-4,0 L/ha	30	SL	III	III	Helm	Glycine derivatives
		Glister	Herbicide	1,0-4,0 L/ha	30	SL	II	III	Sinon	Glycine derivatives
		GLI-UP 480 SL	Herbicide	1,0-5,0 L/ha	30	SL	III	III	Cropchem	Glycine derivatives
		GLI-UP 720 WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Cropchem	Glycine derivatives
		Gliz Plus	Herbicide	1,0-6,0 L/ha	30	SL	II	III	Dow	Glycine derivatives
		Gliz 480 SL	Herbicide	1,0-6,0 L/ha	30	SL	III	III	Dow	Glycine derivatives
		Glizmax Prime	Herbicide	0,75-4,5 L/ha	30	SL	III	III	Dow	Glycine derivatives
		Glyox	Herbicide	1,0-6,0 L/ha	30	SL	IV	III	Nortox	Glycine derivatives
		Glyphon	Herbicide	1,5-6,0 L/ha	30	SL	I	III	Nortox	Glycine derivatives
		Glyphotol	Herbicide	0,75-5,0 L/ha	30	SL	II	III	UPL	Glycine derivatives
		Glyphotol TR	Herbicide	1,0-4,5 L/ha	30	SL	II	III	UPL	Glycine derivatives
		Glyphotol WG	Herbicide	0,75-3,0 kg/ha	30	WG	III	III	United Phosphorus	Glycine derivatives
		Soldier	Herbicide	0,50-3,5	30	WG	III	III	Rainbow	Glycine derivatives
		Mademato	Herbicide	1,0-5,0 L/ha	30	SL	I	III	DIPIL	Glycine derivatives
		Pilarsato	Herbicide	1,0-5,0 L/ha	30	SL	I	III	Pilarquim	Glycine derivatives
		Polaris	Herbicide	0,5-5,0 L/ha	30	SL	IV	III	Du Pont	Glycine derivatives
		Pride	Herbicide	0,5-6,0 L/ha	30	SL	I	III	Iharabras	Glycine derivatives
		Potensato	Herbicide	0,5-5,0 L/ha	30	SL	III	III	Stockton	Glycine derivatives
		Preciso	Herbicide	0,5-3,5 L/ha	30	WG	III	III	Albaugh	Glycine derivatives
		Radar	Herbicide	0,5-5,0 L/ha	30	SL	III	III	Monsanto	Glycine derivatives
		Radar WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glycine derivatives
		Ridover	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Rainbow	Glycine derivatives
		Rodeo	Herbicide	1,0-4,0 L/ha	30	SL	IV	III	Monsanto	Glycine derivatives
		Roundup Original	Herbicide	0,5-12,0 L/ha	30	SL	III	III	Monsanto	Glycine derivatives
		Roundup Original DI	Herbicide	1,0-6,0 L / ha	30	SL	II	III	Monsanto	Glycine derivatives
		Roundup Transorb	Herbicide	0,75-4,5 L/ha	30	SL	II	III	Monsanto	Glycine derivatives
		Roundup WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glycine derivatives
		Rustler	Herbicide	0,5-5,0 L/ha	30	SL	III	III	Monsanto	Glycine derivatives
		Rustler WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glycine derivatives
		Shadow	Herbicide	1,0-6,0 L / ha	30	SL	III	III	Albaugh	Glycine derivatives
		Shadow 480 SL	Herbicide	1,0-5,0 L/ha	30	SL	III	III	Albaugh	Glycine derivatives
		Stinger	Herbicide	0,5-5,0 L/ha	30	SL	IV	III	Monsanto	Glycine derivatives
		Stinger WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glycine derivatives
		Sumô	Herbicide	1,0-5,0 L/ha	30	SL	III	III	Pilarquim	Glycine derivatives
		Teardown	Herbicide	1,0-4,0 L/ha	30	SL	II	III	Sinon	Glycine derivatives
		Templo	Herbicide	1,0-4,0 L/ha	30	SL	III	III	Ourofino	Glycine derivatives
Trop	Herbicide	1,0-6,0 L/ha	30	SL	III	III	Adama	Glycine derivatives		
Tupan 720 WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Cropchem	Glycine derivatives		
Nufosate WG	Herbicide	0,5-3,5 kg/ha	30	SL	III	III	Nufarm	Glycine derivatives		
Zapp QI 620	Herbicide	0,7-4,2 L/ha	30	SL	III	III	Syngenta	Glycine derivatives		
10	Indaziflam	Alion	Herbicide	150-200 ml/ha	35	SC	III	III	Bayer	Alkyl Azide

## PIC LIST - CITRUS INTEGRATED PRODUCTION

### 2. HERBICIDES

List drawn up by the Committee of pesticides for the Citrus Integrated Production - PIC Brazil. Updated 15<sup>th</sup> april 2019

	ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harvest Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
11	Paraquat dichloride	Flak 200 SL	Herbicide	1,5-2,0 L/ha	1	SL	I	III	Cropchem	Bipyridylium
		Laredo	Herbicide	1,5-2,0 L/ha	1	SL	I	II	Helm	Bipyridylium
11	Paraquat dichloride	Gramoxone 200	Herbicide	1,5-2,0 L/ha	1	SL	I	II	Syngenta	Bipyridylium
		Helmozone	Herbicide	1,5-2,0 L/ha	1	SL	I	II	Helm	Bipyridylium
		Nuquat	Herbicide	1,5-2,0 L/ha	1	SL	I	III	Nufarm	Bipyridylium
		Orbit	Herbicide	1,5-2,0 L/ha	1	SL	I	II	Sinon	Bipyridylium
		Paradox	Herbicide	1,5-3,0 L/ha	7	SL	I	II	Sinon	Bipyridylium
		Gramoking	Herbicide	1,5-2,0 L/ha	1	SL	I	III	Rainbow	Bipyridylium
		Paraquate Alta 200 SL	Herbicide	1,5-2,0 L/ha	1	SL	I	III	Alta	Bipyridylium
		Quatdown	Herbicide	1,5-2,0 L/ha	1	SL	I	III	Rainbow	Bipyridylium
		Sprayquat	Herbicide	1,5-2,0 L/ha	1	SL	I	III	Rainbow	Bipyridylium
12	Saflufenacil	Heat	Herbicide	35-70 g/ha	7	WG	III	III	Basf	Uracyl

PIC LIST - CITRUS INTEGRATED PRODUCTION

3. PLANT HORMONES

List drawn up by the Committee of pesticides for the Citrus Integrated Production - PIC Brazil. Updated 15<sup>th</sup> april 2019

	ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harvest Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
1	Gibberellic acid	Pro-Gibb	Plant growth regulator	400 g/2000 L	s/r	SP	II	IV	Sumitomo	Gibberellin
		Progibb 400	Plant growth regulator	6,25	s/r	WG	III	IV	Sumitomo	Gibberellin
2	4-indol-3-ylbutyric acid + Gibberellic acid (GA3) + Kinetin	Stimulate	Plant growth regulator	1 L/ha	s/r	SL	IV	IV	Stoller	indolebutyric acid + gibberellin + cytokinin
3	Acibenzolar-S-methyl	Bion 500 WG	Plant Activator	80,0	s/r	WG	III	III	Syngenta	benzothiadiazole

4. PHEROMONES AND ANT BAIT

List drawn up by the Committee of pesticides for the Citrus Integrated Production - PIC Brazil. Updated 15<sup>th</sup> april 2019

	ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harvest Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
1	(E)-8-dodecenyl alcohol+ (E)-8-dodecenyl acetate	Ferocitrus Furão	Pheromone	1 trap/10 há or 1 trap/3000-3500 trees	-	FF	IV	IV	Coopercitrus	Unsaturated alcohol + Unsaturated acetate
2	Bifenthrin	Bistar	Anticide	0,38 mL/m <sup>2</sup>	nd	KN	IV	II	FMC	Pyrethroids
		Bistar UBV	Anticide	5,0 mL/m <sup>2</sup>	nd	UL	IV	II	FMC	Pyrethroids
3	Trimedlure	Bioceratitis	Pheromone	1 trap/3 ha 1 trap/ha (in irregular areas)	-	GE	IV	-	Bio Controle	Saturated esters
		Bio Trimedlure	Pheromone	1 Trap/ha	-	GE	IV	-	Bio Controle	Saturated esters
		Iscalure TML Plug	Pheromone	1 Trap/ha	-	GE	-	-	ISCA tecnologias	Saturated esters
4	Fipronil	Blitz	Anticide	5,0-10,0 g/m <sup>2</sup>	nd	GB	IV	II	Basf	Phenyl pyrethroid
5	Chlorpyrifos	Landrin Pó	Anticide	5,0-30,0 g/m <sup>2</sup>	nd	ED	II	II	Landrin	Organophosphates
		Lakree Fogging	Anticide	4,0 mL/m <sup>2</sup>	nd	HN	III	II	Dow	Organophosphates
6	Sulfuramid	Fortmex-S	Anticide/insecticide	6,0-8,0 g/m <sup>2</sup>	nd	GB	IV	III	Bio Soja	fluoroaliphatic sulfonamide
		Fluramin	Anticide	6,0-30,0 g/m <sup>2</sup>	nd	GB	IV	II	Adama	fluoroaliphatic sulfonamide
		Formicida Gran. Dinagro-S	Anticide	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Dinagro	fluoroaliphatic sulfonamide
		Formicida Gran. Pikapau-S	Anticide/insecticide	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	São Vicente	fluoroaliphatic sulfonamide
		Grão Verde AG	Anticide	6,0-10,0 g/m <sup>2</sup>	nd	GB	III	III	DIPIL	fluoroaliphatic sulfonamide
		Isca Formicida Atta Mex-S	Anticide	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Unibrás	fluoroaliphatic sulfonamide
		Isca Formicida Exatta	Anticide	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Legisnovo	fluoroaliphatic sulfonamide
		Isca Tamanduá Bandeira-S	Anticide/insecticide	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Bio Soja	fluoroaliphatic sulfonamide
		Mirex-S 2	Anticide	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Atta Kill	fluoroaliphatic sulfonamide
		Mirex-S Max	Anticide	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Atta Kill	fluoroaliphatic sulfonamide
Mirex-S	Anticide	6,0-20,0 g/m <sup>2</sup>	nd	GB	IV	III	Atta Kill	fluoroaliphatic sulfonamide		

PIC LIST - CITRUS INTEGRATED PRODUCTION

5. BIOLOGICAL AGENTS

List drawn up by the Committee of pesticides for the Citrus Integrated Production - PIC Brazil. Updated 15<sup>th</sup> april 2019

	BIOLOGICAL AGENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harverst Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CLASSIFICATION
1	<i>Bacillus amyloliquefaciens</i>	Duravel	Microbiological Fungicide	0,5-1,0 kg/ha	s/r	WP	III	IV	Basf	Biological
		Eco-Shot	Microbiological Fungicide	0,1-4,0 kg	s/r	WG	III	IV	Iharabras	Biological
2	<i>Bacillus subtilis</i>	Serenade	Microbiological Bactericide / Fungicide	2,0-4,0 L/ha	-	SC	III	IV	Bayer	Biological
3	<i>Bacillus subtilis</i> + <i>Bacillus licheniformis</i>	Quartzo	Microbiological Nematicide	130-200 g/ha	s/r	WS	III	IV	FMC	Biológico
4	<i>Bacillus thuringiensis</i>	Able	Biological Insecticide	50,0	-	SC	III	IV	Sipcam	Biological
4	<i>Bacillus thuringiensis</i>	Agree	Biological Insecticide	50,0	-	WP	III	IV	Bio Controle	Biological
		Bac-Control WP	Biological Insecticide	50,0	-	WP	IV	IV	Vector Control	Biological
		BtControl	Biological Insecticide	500,0-750,0 g/ha	-	SC	IV	IV	Simbiose	Biological
		Costar	Microbiological Insecticide	40-60	-	WG	I	IV	Iharabras	Biological
		Dipel	Biological Insecticide	1-1,5 L/2000 L	-	SC	IV	IV	Sumitomo	Biological
		Dipel WG	Biological Insecticide	25,0-37,5	-	WG	II	IV	Sumitomo	Biological
		Dipel WP	Biological Insecticide	50,0	-	WP	II	IV	Sumitomo	Biological
		Helymax EC	Microbiological Insecticide	33-40,5 mL	-	EC	IV	IV	Ballagro	Biological
Thuricide	Microbiological Insecticide	30,0	s/r	WP	IV	IV	Bio Controle	Biológico		
		Thuricide SC	Microbiological Insecticide	1000-2000 mL/ha	-	SC	II	IV	Mitsui	Biological
5	<i>Beauveria bassiana</i>	Ballvéria	Microbiological Insecticide	0,15-8,0 kg/ha	-	WP	IV	IV	Ballagro	Biological
		BeauveControl	Microbiological Insecticide	375-4000 g/ha	-	WP	IV	IV	Simbiose	Biological
		Bovemax EC	Biological Insecticide	1,5-2,0 L/ha	-	EC	IV	IV	Novozymes	Biological
		Boveril WP PL 63	Microbiological Insecticide	2,0-20 kg/ha	s/r	WP	III	IV	Koppert	Biological
6	<i>Isaria fumosorosea</i>	Challenger	Microbiological Insecticide	100,0-400,0	s/r	SC	III	IV	Koppert	Biological
		Puma	Microbiological Insecticide	1000-1500 mL/ha	s/r	SC	III	IV	Koppert	Biological
7	<i>Metarhizium anisopliae</i>	Metarril WP E9	Microbiological Insecticide	500,0-750,0 g/ha	s/r	WP	IV	IV	Koppert	Biological
		Methacontrol	Biological Insecticide	1,7-26,7 kg/ha	s/r	WP	IV	IV	Simbiose	Biological
		Metiê	Microbiological Insecticide	0,075-2,0 kg/ha	s/r	WP	IV	IV	Ballagro	Biological
8	<i>Neoseiulus californicus</i>	Spical	Biological Acaricide	20.000 mites/ha	s/r	Live mites	-	IV	Koppert	Biological
9	<i>Paecilomyces lilacinus</i>	Nemat	Microbiological Nematicide	100,0-600,0 g/ha	s/r	WP	IV	IV	Ballagro	Biological
10	<i>Trichoderma harzianum</i>	Ecotrich	Microbiological Fungicide	0,15-0,25 kg/ha	s/r	WP	IV	IV	Ballagro	Biological
		StimuControl	Biological Fungicide	1,5-2,5 L/ha	s/r	SC	III	IV	Simbiose	Biological
		Trichodermil SC 1306	Fungicide / Nematicide Biological	0,5-1,0 L/ha	s/r	SC	III	IV	Koppert	Biological
11	<i>Trichogramma pretiosum</i>	Hunter	Biological Control Agent	100.000-750.000 adults/ha	s/r	Live Insects	-	IV	Koppert	Biological

6. ALTERNATIVE USE AGROCHEMICALS USED IN CITRUS INTEGRATED PRODUCTION - PIC BRASIL

List drawn up by the Committee of pesticides for the Citrus Integrated Production - PIC Brazil. Updated 15<sup>th</sup> april 2019

	PRODUCTS	COMPOSITION	CLASSIFICATION	DOSAGE	PHI Pre Harverst Interval (days)	CHEMICAL GROUP
1	Sulfocalcium Cald	Sulfur + virgin lime + water	Fungicide / Insecticide / Acaricide	1,0 L / 30-50 L	-	-
2	Bordeaux mixture	Copper sulfate + calcium oxide + water	Fungicide	0,6 a 1% / 100 L	-	-
3	Bordeaux paste	Copper sulfate + calcium oxide + water	Fungicide	brushing	-	-

PIC LIST - CITRUS INTEGRATED PRODUCTION

LEGEND	
CB	Concentrate bait
DC	Dispersible Concentrate
EC/CE	Emulsifiable concentrate
EW	Emulsion, oil-in-water
FF	Smoke Tablet
GB	Granular bait
GE	Gas generating product
ED	Electro-dynamic (liquid)
GR	Granule
HN	Hot fogging concentrate
KN	Cold fogging concentrate
PA	Paste
SC	Suspension concentrate
SL	Soluble (liquid) concentrate
SP	Soluble powder
UL	Ultra-low volume (ULV) liquid
WP	Wettable powder
WG	Water dispersible granules
SG	Soluble Granules
WS	Powder for Preparation of Paste in Water

TOXICOLOGICAL CLASSIFICATION			
Toxicity to man		Dangerousness environmental	
I	Extremely toxic	I	Extremely hazardous
II	Highly toxic	II	Highly hazardous
III	Toxic	III	Hazardous
IV	Slightly toxic	IV	Slightly hazardous

<i>sr</i>	No Restrictions
<b>nd</b>	No Defenitions
*	applied in post-harvest
-	Not Informed

MRLs GRADE DE DEFENSIVOS AGRÍCOLAS - PRODUÇÃO INTEGRADA DE CITROS (PIC BRASIL)										Atualização	15/04/2019
	INGREDIENTE ATIVO	ST. 1107/2009	ST. 396/EC	EUROPA	BRASIL	USA	JAPÃO	CANADA	CODEX	CLASSE	Fabricante
1	Abamectin	Approved	Anexo III	0.015	0.005	0.02 L	0.1	0.2	0.01L	Acaricida/Inseticida	Syngenta
2	Acetamiprid	Approved	Anexo II	0.9	0.3	1.0	2.00	0.50	1.0	Inseticida	Iharabras
3	Azadirachtin	Approved	Anexo III	0.50	SR	SR	N/C	N/C	N/C	Inseticida	DVA
4	Azoxystrobin	Approved	Anexo II	15.00	0.50	15.00	10.00	15.00	15.00	Fungicida	Syngenta
5	<i>Bacillus thuringiensis</i>	Approved	-	0.01	SR	SR	-	SR		Inseticida Biológico	Sumitomo
6	Beta-Cyfluthrin	Approved	Anexo II	0.02 L	0.10	0.20	2.00	0.10 L	0.30	Inseticida	Bayer
7	Bifenthrin	Approved	Anexo II	0.05	0.07	0.05	2.00	0.10 L	0.05	Acaricida/Inseticida	FMC
8	Buprofezin	Approved	Anexo III	1.00	0.30	2.50	2.00	4.00	1.00	Acaricida/Inseticida	Nichino
9	Carfentrazone-ethyl	Approved	Anexo II	0.01L	0.05	0.10	0.10	0.10 L	N/C	Herbicida	FMC
10	Chlorantraniliprole	Approved	Anexo II	0.70	0.20	1.40	0.50	0.70	0.70	Inseticida	Syngenta
11	Chlorpyrifos	Approved	Anexo II	0.30	2.00	1.00	1.00	1.00	1.00	Acaricida/Inseticida	Dow
12	Cyflumetofen	Approved	Anexo II	0.30	0.10	0.30	10.00	0.30	0.30	Acaricida	Arysta/Ihara
13	Cypermethrin	Approved	Anexo II	2.00	0.10	-	2.00	1.00	0.30	Inseticida	Nortox
	Alfa-Cypermethrin	Approved	Anexo II	2.00	0.30	10.0	2.00	0.1	0.30	Inseticida	Nortox
	Beta-Cypermethrin	Approved	Anexo II	2.00	0.30	-	2.00	-	-	Inseticida	Arysta
	Zeta-Cypermethrin	Approved	Anexo II	2.00	0.01	0.35	2.00	-	0.30	Inseticida	FMC
14	Difenoconazole	Approved	Anexo III	0.60	0.50	0.60	0.60	0.80	0.60	Fungicida	Syngenta
15	Diflubenzuron	Approved	Anexo III	1.00	0.20	3.00	3.00	0.10 L	0.50	Acaricida/Inseticida	Cheminova
16	Dimethoate	Approved	Anexo II	0.01L	2.00	2.00	2.00	1.50	5.00	Acaricida/Inseticida	Cheminova
17	Diquat	Approved	Anexo II	0.02L	0.02 L	0.05	0.03	0.10 L	0.02	Herbicida	Syngenta
18	Diuron	Approved	Anexo III	0.01 L	0.10	0.05	0.05	1.00	N/C	Herbicida	Genérico
19	Sulfur (Enxofre)	Approved	Anexo III	50.00	SR	SR	-	N/C	N/C	Acaricida/Inseticida	Genérico
20	Etofenprox	Approved	Anexo II	1.00	0.20	5.00	5.00	0.10 L	N/E	Inseticida	Sipcam/Ihara
21	Etoxazole	Approved	Anexo II	0.10	0.05	0.10	0.70	N/E	0.10	Acaricida	Sumitomo
22	Fenpropathrin	Not approved	Anexo III	2.00	1.00	2.00	5.00	2.00	2.00	Acaricida/Inseticida	Sumitomo
23	Fenpyroximate	Approved	Anexo III	0.50*	0.50	0.50	1.00	0.50	0.50	Acaricida	Arysta
24	Flufenoxuron	Not approved	Anexo III	0.30	0.20	0.30	2.00	1.00 L	0.40	Acaricida/Inseticida	Basf
25	Flumioxazin	Approved	Anexo III	0.02	0.05	0.02	0.1	N/E	N/E	Herbicida	Sumitomo
26	Fluxaproxade	Approved	Anexo IIIa	0.3	0.2	1.00	1.00	1.0	0.3	Fungicida	Basf
27	Formetanate Hydrochloride	Approved	Anexo III	0.01 L	0.05	1.50	2.00	4.0	N/C	Acaricida/Inseticida	Crosslink
28	Fosetyl	Approved	Anexo III	75.00	0.5	5.00	150.00	9.00	N/C	Fungicida	Bayer
29	Glyphosate	Approved	Anexo II	0.50	0.20	0.50	0.50	0.10 L	N/E	Herbicida	Monsanto
30	Glufosinate	Approved	Anexo III	0.05	0.05	0.15	0.20	0.10 L	0.05	Herbicida	Bayer
31	Hexythiazox	Approved	Anexo III	1.00	1.00	0.35/0.60	2.00	0.5	0.50	Acaricida	Dupont
32	Copper hydroxide	Approved	Anexo III	20.00	SR	SR	SR	50.00	N/C	Fungicida	Genérico
33	Imazail*	Approved	Anexo II	5.00	5.00	10.00	5.00	5.00	5.00	Fungicida	Adama
34	Imidacloprid	Approved	Anexo III	1.00	1.00	0.70	0.70	1.00	1.00	Inseticida	Bayer
35	Indaziflam	Not approved	Default	0.01L	0.01	0.01	N/C	0.01	N/C	Herbicida	Bayer
36	Malathion	Approved	Anexo III	2.00	4.00	8.00	7.00	N/E	7.00	Inseticida	Cheminova
37	Oleo Mineral	Approved		0.01L	SR	SR	SR	SR	SR	Inseticida	Genérico
38	Oleo Vegetal	Approved		SR	SR	SR	SR	SR	SR	Inseticida	Genérico
39	Copper Oxychloride	Approved	Anexo III	20.00	SR	SR	SR	50.00	N/C	Fungicida	Genérico
40	Cuprous Oxide	Approved	Anexo III	20.00	SR	SR	SR	50.00	N/C	Fungicida	Stoller

MRLs GRADE DE DEFENSIVOS AGRÍCOLAS - PRODUÇÃO INTEGRADA DE CITROS (PIC BRASIL)										Atualização	15/04/2019
	INGREDIENTE ATIVO	ST. 1107/2009	ST. 396/EC	EUROPA	BRASIL	USA	JAPÃO	CANADA	CODEX	CLASSE	Fabricante
41	Paraquat	Not approved	Anexo II	0.02 L	0.05 L	0.05	0.05	0.10 L	0.02	Herbicida	Syngenta
42	Phosmet	Approved	Anexo III	0.50	1.00	5.00	5.00	0.10 L	3.00	Acaricida/Inseticida	Agricur
43	Propargite***	Not approved	Anexo I	4.00	5.0	10.0	3.0	5.0	3.0	Acaricida	Arysta
44	Pyraclostrobin	Approved	Anexo II	2.00	0.50	2.00	2.00	2.00	2.00	Fungicida	Basf
45	Pyridaben	Approved	Anexo III	0.50	0.05	0.90	1.00	0.90	N/C	Acaricida/Inseticida	Iharabras
46	Pyrimethanil	Approved	Anexo II	8.00	2.00	10.00	10.00	10.00	7.00	Fungicida	Bayer
47	Pyriproxyfen	Approved	Anexo III	0.60	1.00	0.50	0.50	0.50	0.50	Inseticida	Sumitomo
48	Saflufenacil	Not approved	Anexo III	0.03	0.03	0.03	0.03	0.03	0.01	Herbicida	Basf
49	Spinetoram	Approved	Anexo III	0.2	0.20	0.30	0.70	0.30	0.07	Inseticida	Dow
50	Spinosad	Approved	Anexo III	0.30	0.01 L	0.30	0.30	0.30	0.30	Inseticida	Dow
51	Spirodiclofen	Approved	Anexo III	0.50	0.03	0.50	2.00	0.60	0.40	Acaricida	Bayer
52	Tebuconazole	Approved	Anexo III	0.90	5.00	1.00	5.00	1.0	N/E	Fungicida	Bayer
53	Tebufenozide	Approved	Anexo II	2.00	0.50	2.00	2.00	0.10 L	2.00	Inseticida	Iharabras
54	Teflubenzuron	Approved	Anexo I	0.5	0.2	0.6	1	0.6	0.5	Inseticida	Basf
55	Thiabendazole**	Approved	Anexo II	5.00	10.00	10.00	10.00	10.00	7.00	Fungicida	Syngenta
56	Thiamethoxam	Approved	Anexo III	0.15	1.00	0.40	1.00	0.40	0.50	Inseticida	Syngenta
57	Trifloxystrobin	Approved	Anexo II	0.50	0.20	0.60	0.50	0.60	0.50	Fungicida	Bayer

NOTAS	ST.1107/2009	Status do ativo no Reg. (EC) 1107/2009
	ST. 396/EC	Anexos do Regulamento 396/2005/EC da Comunidade Européia
	MRL	Limite Máximo de Resíduos expressos em mg/kg
	N/E	Ativo tem autorização para uso no País, mas não tem LMR fixado para frutas cítricas
	N/C	Ativo não tem registro para qualquer cultura no país.
	L	Default (Limite Mínimo de Quantificação)
	SR	Não há necessidade de controle de LMR
	Azadirachtin	LMR para Lime na Com. Européia - 0,01L ppm
	Glyphosate	LMR para Lime/Lemon na Com. Européia -0,1 ppm
	Glufosinate	LMR para Lime/Lemon na Com. Européia - 0,5 ppm
	Tebuconazole	LMR somente para laranjas nos EUA
	Spirodiclofen	LMR para citrus juice no Canada
	Hexythiazox	0.6 ( somente para os Estados - CA, AZ, TX )
	*Fenpyroximate	Proposta de alteração do LMR de 0.50 para 0.15 ppm na Europa - sem data prevista (SANTE 10781-2016-rev0)
	**	Uso para tratamento pós-colheita
	Propargite***	LMR definido na Europa somente para Laranja. Sem LMR definido para Limões, Limas e Tangerinas.