

# ProteCitrus - Citrus Protection Products

## 1- List of insecticides, acaricides and fungicides

List drawn up by the ProteCitrus Technical Committee, updated 14th august 2020

ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harvest Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
Abamectin	Abadin 72 EC	Acaricide/Insecticide	3,75-7,5	7	EC	I	II	Cropchem	Avermectin
Abamectin	Abamectin 72 EC Nortox	Acaricide/Insecticide	3,75-7,5	7	EC	I	II	Nortox	Avermectin
Abamectin	Abamectin Nortox	Acaricide/Insecticide	15,0-30,0	7	EC	III	III	Nortox	Avermectin
Abamectin	Abamectin Prentiss	Acaricide/Insecticide	20,0-30,0	7	EC	I	III	Prentiss	Avermectin
Abamectin	Abamex	Acaricide/Insecticide	20,0	7	EC	I	III	Nufarm	Avermectin
Abamectin	Abamex BR 18	Acaricide/Insecticide	20,0	7	EC	I	III	Nufarm	Avermectin
Abamectin	Acaramik	Acaricide/Insecticide	15,0-30,0	7	EC	I	III	Rotam	Avermectin
Abamectin	Banter	Insectic. /Acaric. /Nematic.	15,0-30,0	7	EC	I	II	UPL	Avermectin
Abamectin	Batent	Insectic. /Acaric. /Nematic.	15,0-30,0	7	EC	I	III	UPL	Avermectin
Abamectin	Boreal	Insectic. /Acaric. /Nematic.	10,0-30,0	7	EC	I	II	Tradecorp	Avermectin
Abamectin	Grimectin	Acaricide/Insecticide	15,0-30,0	7	EC	I	III	Rotam	Avermectin
Abamectin	Mantis 400 WG	Insectic. /Acaric. /Nematic.	1,35-1,70	7	WG	Cat 2	II	Cropchem	Avermectin
Abamectin	Pausato	Acaricide/Insecticide	20,0-30,0	7	EC	I	III	Sinon	Avermectin
Abamectin	Potenza Sinon	Acaricide/Insecticide	20,0-30,0	7	EC	I	III	Sinon	Avermectin
Abamectin	Rotamik	Acaricide/Insecticide	15,0-30,0	7	EC	I	III	Rotam	Avermectin
Abamectin	Vertimec 18 EC	Insectic. /Acaric. /Nematic.	10,0-30,0	7	EC	III	II	Syngenta	Avermectin
Abamectin	Vertimec 84 EC	Insectic. /Acaric. /Nematic.	4,0-6,0 mL/100 L water	7	SC	I	III	Syngenta	Avermectin
Abamectin + Cyantraniliprole	Minecto Pro	Acaricide/Insecticide	0,1-0,5 L/ha	7	SC	Cat 3	II	Syngenta	Avermectin + Anthranilamide
Acetamiprid	Mospilan WG	Insecticide	3,0-7,0	3	WG	III	II	Iharabras	Neonicotinoid
Acetamiprid + Bifenthrin	Sperto	Insecticide	8,0-12,0	21	WG	III	I	UPL	Neonicotinoid + Pyrethroids
Acetamiprid + Pyriproxyfen	Privilege	Insecticide	2,5-7,5	14	OD	III	I	Iharabras	Neonicotinoid + Pyridyloxypropyl ether
Alpha-Cypermethrin + Teflubenzuron	Imunit	Insecticide	20-25 mL	15	SC	III	II	Basf	Pyrethroids + Benzoylurea
Azadirachtin	Azact CE	Insecticide/Fungicide	4,0 L/ha	-	EC	II	IV	LAC e Silva Agronegócios	Tetranortriterpenoid
Azadirachtin	AzaMax	Insecticide	100,0-250,0	-	EC	III	IV	UPL	Tetranortriterpenoid
Azoxystrobin	Amistar WG	Fungicide	8,0-16,0	7	WG	IV	II	Syngenta	Strobilurin
Azoxystrobin	Vantigo	Fungicide	8,0-16,0	7	WG	IV	III	Syngenta	Strobilurin
Azoxystrobin + Difenconazole	Priori Top	Fungicide	20,0	7	SC	III	II	Syngenta	Strobilurin + Triazole
Azoxystrobin + Tebuconazole	Azimut	Fungicide	30,0-40,0	20	SC	III	II	Adama	Strobilurin + Triazole
Azoxystrobin + Tebuconazole	Helmstar Plus	Fungicide	0,7 L/ha	20	SC	II	II	Helm	Strobilurin + Triazole
Beta-cyfluthrin	Bulldock 125 SC	Insecticide	50-100mL/ha	21	SC	II	II	Bayer	Pyrethroids
Beta-cyfluthrin	Ducat	Insecticide	12,5-25,0	21	EC	II	II	Bayer	Pyrethroids
Beta-cyfluthrin	Full	Insecticide	12,5-25,0	21	EC	II	II	Bayer	Pyrethroids
Beta-cyfluthrin	Turbo	Insecticide	12,5-25,0	21	EC	II	II	Bayer	Pyrethroids
Bifenthrin	Seizer 100 EC	Acaricide/Insecticide	7,5-20,0	7	EC	III	II	Adama	Pyrethroids
Bifenthrin	Talstar 100 CE	Acaricide/Insecticide	7,5-20,0	7	EC	III	III	FMC	Pyrethroids
Buprofezin	Applaud 250	Insecticide/Plant growth regulator	100,0-200,0	7	WP	III	III	Nichino	Thiadiaz-type
Buprofezin	Sensei	Insecticide	30-200	7	SC	III	III	Helm	Thiadiaz-type
Chlorantraniliprole + Abamectin	Voliam Targo	Acaricide/Insecticide	5,0-20,0	7	SC	II	II	Syngenta	Antranilamide + Avermectin
Chlorantraniliprole + Thiamethoxam	Durivo	Insecticide	1,0-2,0 mL/metro alt. Tree	14	SC	III	II	Syngenta	Antranilamide + Neonicotinoid
Copper hydroxide	Auge	Fungicide	2,0-3,0 L/ha	s/r	SC	III	III	Oxiquímica	Inorganic
Copper hydroxide	Contact	Fungicide	0,85-1,7 Kg / ha ou 200,0	s/r	WP	IV	III	Mitsui	Inorganic
Copper hydroxide	Ellect	Fungicide	2,0-3,0 kg/ha	s/r	WP	I	III	Oxiquímica	Inorganic
Copper hydroxide	Garant BR	Bacteric./Fungic.	0,85-1,7 Kg/ha ou 200,0	s/r	WP	IV	II	Mitsui	Inorganic
Copper hydroxide	Garra 450 WP	Fungicide	100,0-150,0	7	WP	I	III	Oxiquímica	Inorganic
Copper hydroxide	Kentan 40 WG	Fungicide	75,0-100,0	s/r	WG	I	II	Isagro	Inorganic
Copper hydroxide	Kocide WDG Bioactive	Bacteric./Fungic.	75,0-125,0	s/r	WG	III	II	Mitsui	Inorganic

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Copper hydroxide	Supera	Fungicide	2,0-3,0 L/ha	s/r	SC	III	III	Oxiquímica	Inorganic
Copper hydroxide	Tutor	Fungicide	175,0-225,0	s/r	WG	II	III	Basf S.A.	Inorganic
Copper oxychloride	Agrinose	Bacteric./Fungic.	400,0	-	WP	III	II	Sumitomo	Inorganic
Copper oxychloride	Cobox DF	Fungicide	250,0	7	WG	IV	III	Mitsui	Inorganic
Copper oxychloride	Cobre Fersol	Fungicide	300,0	-	WP	IV	III	Ameribrás	Inorganic
Copper oxychloride	Copsuper	Fungicide	150-200,0 ou 2-2,5 L/ha	-	SC	III	III	Oxiquímica	Inorganic
Copper oxychloride	Cuprital 700	Bacteric./Fungic.	75,0-100,0	s/r	SC	II	III	Tradecorp	Inorganic
Copper oxychloride	Cuprogarb 350	Fungicide	200,0-300,0	7	WP	IV	III	Oxiquímica	Inorganic
Copper oxychloride	Cuprogarb 500	Fungicide	150,0-200,0	-	WP	IV	III	Oxiquímica	Inorganic
Copper oxychloride	Cupuran 500 PM	Bacteric./Fungic.	3 kg/ha	-	WP	IV	III	Mitsui	Inorganic
Copper oxychloride	Difere	Fungicide	3,0-4,0 L/ha	-	SC	III	III	Oxiquímica	Inorganic
Copper oxychloride	Fanavid 85	Fungicide	300,0-450,0	7	WP	III	III	Rizzi	Inorganic
Copper oxychloride	Fanavid Flowable	Fungicide	300,0-450,0	7	SC	IV	III	Rizzi	Inorganic
Copper oxychloride	Fungitol Azul	Fungicide	275,0	7	WP	IV	III	Mitsui	Inorganic
Copper oxychloride	Fungitol Verde	Bacteric./Fungic.	150,0	7	WP	IV	III	Mitsui	Inorganic
Copper oxychloride	Funguran Verde	Fungicide	100,0	-	WP	IV	II	Funguran Giuliani	Inorganic
Copper oxychloride	Neoram 37.5 WG	Fungicide	300,0	-	WG	I	II	Isagro	Inorganic
Copper oxychloride	Ramexane 850 PM	Fungicide	250,0	-	WP	IV	III	Sipcam	Inorganic
Copper oxychloride	Reconil	Bacteric./Fungic.	200,0	-	WP	IV	III	Albaugh	Inorganic
Copper oxychloride	Recop	Fungicide	250,0	-	WP	IV	III	Albaugh	Inorganic
Copper oxychloride	Status	Fungicide	150,0-200,0 ou 2-2,5 L/ha	-	SC	III	III	Oxiquímica	Inorganic
Copper oxychloride + Copper hydroxide	Airone	Bacteric./Fungic.	75-200 mL/100 L	s/r	SC	III	III	Isagro	Inorganic
Cuprous oxide	Cobre Atar BR	Bacteric./Fungic.	150,0	7	WP	IV	III	Albaugh	Inorganic
Cuprous oxide	Redshield 750	Fungicide	100,0	-	WP	III	III	Agrovant	Inorganic
Cyflumetofen	Obny	Acaricide	40,0	7	SC	III	III	UPL	Benzoyl acetronitrile
Cyflumetofen	Okay	Acaricide	40,0	7	SC	III	III	Iharabras	Benzoyl acetronitrile
Difenoconazole	Curygen EC	Fungicide	20,0	7	EC	I	II	Avgust	Triazole
Difenoconazole	Difcor 250 EC	Fungicide	20,0	7	EC	I	II	Cross Link	Triazole
Difenoconazole	Prisma Plus	Fungicide	20,0	7	EC	I	II	Helm	Triazole
Difenoconazole	Score	Fungicide	20,0	7	EC	I	II	Syngenta	Triazole
Difenoconazole	Volna 250 EC	Fungicide	20,0	7	EC	I	II	Avgust	Triazole
Diflubenzuron	Copa	Insecticide	500,0 g/ha	30	WP	III	III	BRA	benzoylurea
Diflubenzuron	Diflubenzuron 240 SC Crop	Acaricide/Insecticide	15-50,0	30	SC	IV	II	Avgust	benzoylurea
Diflubenzuron	Difluchem 240 SC	Insecticide	25,0	30	SC	III	II	Helm	benzoylurea
Diflubenzuron	Diflumar	Insecticide	25,0	30	SC	III	II	Helm	benzoylurea
Diflubenzuron	Dimilin	Insecticide	500,0 g/ha	30	WP	IV	III	UPL	benzoylurea
Diflubenzuron	Du Dim	Insecticide	25,0	30	WP	I	III	UPL	benzoylurea
Diflubenzuron	Herold SC	Acaricide/Insecticide	15,0-50,0	30	SC	IV	II	Avgust	benzoylurea
Diflubenzuron	Login	Insecticide	500,0 g/ha	30	WP	I	II	UPL	benzoylurea
Diflubenzuron	Micromite 240 SC	Acaricide/Insecticide	15,0-50,0	30	SC	III	III	UPL	benzoylurea
Etofenprox	Safety	Insecticide	30,0-60,0	7	EC	III	III	Iharabras	pyrethroid ether
Etofenprox	Trebon 100 SC	Insecticide	0,01-0,025 L	7	SC	III	III	Sipcam	pyrethroid ether
Etoxazole	Borneo	Acaricide	45,0	14	SC	II	III	Sumitomo	Dipheniloxazoline
Etoxazole	Smite	Acaricide	45,0	14	SC	II	III	Sumitomo	Dipheniloxazoline
Fenpropathrin	Danimen 300 EC	Acaricide/Insecticide	20,0-50,0	28	EC	I	II	Sumitomo	Pyrethroids
Fenpropathrin	Meothrin 300	Acaricide/Insecticide	20,0-50,0	28	EC	I	II	Sumitomo	Pyrethroids
Fenpropathrin	Sumirody 300	Acaricide/Insecticide	20,0-50,0	28	EC	I	II	Sumitomo	Pyrethroids

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Fenpyroximate	Fujimite 50 SC	Acaricide	100,0	15	SC	II	I	Nichino	Pyrazole
Fenpyroximate	Ortus 50 SC	Acaricide	100,0	15	SC	II	II	Nichino	Pyrazole
Flufenoxuron	Cascade 100	Acaricide/Insecticide	30,0-50,0	15	EC	I	II	Basf	Benzoylurea
Flupyradifurone	Sivanto Prime 200 SL	Insecticide	25,0-40,0	14	SL	Cat 4	III	Bayer	Butenolide
Fluxapyroxad + Pyraclostrobin	Orkestra SC	Fungicide	10,0-15,0	14	SC	III	II	Basf	Carboxamide + Strobilurin
Formetanate hydrochloride	Dicarzol 500 SP	Acaricide/Insecticide	20, 0-25,0	21	SP	II	II	Cross Link	N-Methyl Carbamate
Fosetyl	Aliette	Fungicide	250,0	25	WP	IV	III	Bayer	Phosphonate
Hexythiazox	Savey WP	Acaricide	3,0	30	WP	II	II	Du Pont	Thiazolidine
Hexythiazox	Viriato	Acaricide	3,0	30	WP	Cat 5	II	Ascenza	Thiazolidine
Imazalil	Imazacure 500 EC	Fungicide	200,0	3	EC	I	II	Agrovant	Imidazole
Imazalil	Magnate 500 EC	Fungicide	200,0	3	EC	I	II	Adama	Imidazole
Imidacloprid	Bamako 700 WG	Insecticide	5,0 ou 0,5- 1 g/tree	21	WG	I	III	Rotam	Neonicotinoid
Imidacloprid	Cigaral	Insecticide	5,0	21	WP	I	III	Anasac	Neonicotinoid
Imidacloprid	Evidence 700 WG	Insecticide	0,5-10,0	21	WG	IV	III	Bayer	Neonicotinoid
Imidacloprid	Galeão	Insecticide	5,0-10,0	21	WG	I	III	Helm	Neonicotinoid
Imidacloprid	Granary	Insecticide	5,0-10,0	21	WG	III	III	Albaugh	Neonicotinoid
Imidacloprid	Imaxi 700 WG	Insecticide	5,0 ou 0,5-1 g/tree	21	WG	I	III	Rotam	Neonicotinoid
Imidacloprid	Imidacloprid 350 SC	Insecticide	9,0-11,0	21	SC	III	III	Rotam	Neonicotinoid
Imidacloprid	Imidacloprid 700 WG HELM	Insecticide	5,0-10,0	21	WG	I	III	Helm	Neonicotinoid
Imidacloprid	Imidacloprid Nortox	Insecticide	10,0-300,0	21	SC	II	II	Nortox	Neonicotinoid
Imidacloprid	Imidagold 700 WG	Insecticide	5,0-10,0	21	WG	III	III	UPL	Neonicotinoid
Imidacloprid	Provado 200 SC	Insecticide	15,0-50,0	21	SC	III	III	Bayer	Neonicotinoid
Imidacloprid	Rotaprid 350 SC	Insecticide	9,0-11,0	21	SC	III	III	Rotam	Neonicotinoid
Imidacloprid	Timon	Insecticide	15,0-50,0	21	SC	III	III	Bayer	Neonicotinoid
Imidacloprid	Warrant 700 WG	Insecticide	5,0	21	WG	III	III	FMC	Neonicotinoid
Imidacloprid	Winner	Insecticide	2,5-5,0 mL/tree	21	SL	III	III	Bayer	Neonicotinoid
Malathion	Malathion 1000 EC Cheminova	Insecticide	150,0-200,0	7	EC	I	II	FMC	Organophosphates
Malathion	Malathion Prentiss	Insecticide	300,0-400,0	7	EC	III	III	Prentiss	Organophosphates
Mineral Oil	Agefix	Insecticide/Acaricide	1000,0-2000,0mL/100 L	s/r	EC	III	III	Energis 8	Aliphatic hydrocarbons
Mineral Oil	Argenfrut RV	Insecticide/Fungicide	1000,0	s/r	EC	III	III	Agrovant	Aliphatic hydrocarbons
Mineral Oil	Assist	Insectic./Fungic./Adjuv.	1.000,0-2.000,0	s/r	EC	IV	IV	Basf	Aliphatic hydrocarbons
Mineral Oil	Dytrol	Insecticide/Adjuvant	1.000,0-2.000,0	s/r	EC	IV	III	Ameribrás	Aliphatic hydrocarbons
Mineral Oil	Iharol	Insectic./Acaric./Adjuv.	1.000,0-2.000,0	s/r	EW	III	III	Iharabras	Aliphatic hydrocarbons
Mineral Oil	Miner'Oil	Insecticide/Adjuvant	1.000,0-1.500,0	s/r	EC	IV	III	Ameribrás	Aliphatic hydrocarbons
Mineral Oil	Oppa BR EC	Insecticide/Adjuvant	1.000,0-1.500,0	s/r	EC	IV	III	Petrobrás	Aliphatic hydrocarbons
Mineral Oil	Orix	Insecticide/Adjuvant	1.000,0-1.500,0	s/r	EW	IV	IV	Oxiquímica	Aliphatic hydrocarbons
Mineral Oil	Purespray 15E	Acaricide	1000,0	s/r	SO	IV	III	Quantiq	Aliphatic hydrocarbons
Oxymatrine	Matrine	Biological Acaricide	75,0-100,0	-	SL	IV	IV	Dinagro	Matridin Alkaloid
Phosmet	Imidan 500 WP	Insecticide	25,0-150,0	20	WP	I	III	Cross Link	Organophosphates
Propargite	Omite 720 EC	Acaricide	100 mL	7	EC	I	II	UPL	Alkyl sulphite
Pyraclostrobin	Comet	Fungicide	10,0-15,0	14	EC	II	II	Basf	Strobilurin
Pyridaben	Sanmite EW	Acaricide/Insecticide	50,0-100,0	7	EW	III	III	Iharabras	Pyridazinone
Pyrimethanil	Mythos	Fungicide	50,0-100,0	14	SC	III	II	Bayer	anilinopyrimidines
Pyriproxyfen	Blade	Insecticide	6,25	14	EC	I	II	Tradecorp	Pyridyloxypropyl ether
Pyriproxyfen	Cordial 100	Insecticide	6,25-75,0	14	EC	I	II	Sumitomo	Pyridyloxypropyl ether
Pyriproxyfen	Cougar	Insecticide	6,25-100,0	14	EC	I	II	Alta	Pyridyloxypropyl ether
Pyriproxyfen	Epingle 100	Insecticide	6,25-100,0	14	EC	I	II	Sumitomo	Pyridyloxypropyl ether

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Pyriproxyfen	Piriproxifen Nortox	Insecticide	25-50 mL/100 L water	14	EC	I	II	Nortox	Pyridyloxypropyl ether
Pyriproxyfen	Porcel 100 EC	Insecticide	6,25-100,1	14	EC	II	II	Rotam	Pyridyloxypropyl ether
Pyriproxyfen	Tiger 100 EC	Insecticide	6,25-100,0	14	EC	I	II	Sumitomo	Pyridyloxypropyl ether
Spinetoram	Delegate	Insecticide	5,0-10,0	1	WG	III	II	Dow	Spinosyns
Spinosad	Success*0.02 CB	Insecticide	1,0-1,6 L/ha	14	CB	III	III	Dow	Spinosyns
Spinosad	Tracer	Insecticide	10,0-15,0	14	SC	III	III	Dow	Spinosyns
Spirodiclofen	Envidor	Acaricide	20,0-25,0	21	SC	III	III	Bayer	Ketoenols
Spirodiclofen	Predador	Acaricide	20,0-25,0	21	SC	III	III	Helm	Ketoenols
Sulfoxaflor	Verte SC	Insecticide	0,1-06 L/ha	7	SC	III	III	Dow	Sulfoximines
Sulfur	Agrothio 800	Acaric./Fungic.	500,0-600,0	s/r	SC	IV	IV	Vittia	Inorganic
Sulfur	Cover DF	Acaric./Fungic.	300,0-500,0	s/r	WG	IV	IV	Basf	Inorganic
Sulfur	Defend WDG	Acaricide	4,0 kg/ha	s/r	WG	IV	IV	Quimetal	Inorganic
Sulfur	Kumulus DF	Acaric./Fungic.	300,0-500,0	s/r	WG	III	III	Basf	Inorganic
Sulfur	Kumulus DF-AG	Acaric./Fungic.	300,0-500,0	s/r	WG	IV	IV	Basf	Inorganic
Sulfur	Microsulfan 800 PM	Acaric./Fungic.	400,0	s/r	WG	IV	IV	Enro	Inorganic
Sulfur	Microthiol Dispers WG	Acaricide	500,0	s/r	WG	IV	IV	UPL	Inorganic
Sulfur	Sulfow SC	Acaricide	250,0-300,0	s/r	SC	IV	IV	UPL	Inorganic
Sulfur	Sulfur 800	Acaricide	300,0	s/r	SC	IV	IV	Stoller	Inorganic
Sulfur	Sulfure 750	Acaricide	125,0-250,0	s/r	SC	IV	IV	Vittia	Inorganic
Tebuconazole	AUG 137	Fungicide	60,0	20	EC	I	II	Avgust	Triazole
Tebuconazole	Keyzol EC	Fungicide	60,0	20	EC	I	II	Avgust	Triazole
Tebuconazole	Produtorbr	Fungicide	75,0	20	EC	I	II	Ouro Fino	Triazole
Tebufenozide	Mimic 240 SC	Insecticide	40,0-50,0	7	SC	IV	III	Iharabras	Benzoic acid hydrazide
Teflubenzuron	Nomolt 150	Insecticide	25-30	28	SC	IV	II	Basf	Benzoylurea
Thiamethoxam	Actara 250 WG	Insecticide	20,0 ou 3,0 g/tree	14fol.-180sol.	WG	III	III	Syngenta	Neonicotinoid
Tiabendazole*	Tecto SC	Fungicide	103,0-1030,0	-	SC	III	II	Syngenta	Benzimidazole
Trifloxystrobin	Flint 500 WG	Fungicide	10,0	14	WG	III	II	Bayer	Strobilurin
Trifloxystrobin + Tebuconazole	Nativo	Fungicide	0,6-0,8 L/ha	7	SC	III	II	Bayer	Strobilurin + Triazole
Vegetable oil	Agro-Oil	Insecticide/Adjuvant	2.000,0-3.000,0	s/r	EC	IV	IV	Vittia	Fatty acid esters
Vegetable oil	Fersoil	Insecticide/Adjuvant	500-1000,00	s/r	EC	IV	IV	Ameribrás	Fatty acid esters
Vegetable oil	Graxol	Insecticide	2.000,0	s/r	EC	IV	IV	Agrária	Fatty acid esters
Vegetable oil	Naturl Óleo	Insecticide/Adjuvant	1.000,0-3.000,0	s/r	EW	IV	IV	Stoller	Fatty acid esters
Vegetable oil	Óleo Vegetal Nortox	Insecticide/Adjuvant	2.000,0	s/r	EC	IV	IV	Nortox	Fatty acid esters
Vegetable oil	Óleo Vegetal Samaritá	Insecticide/Adjuvant	2.000,0-3.000,0	s/r	EC	IV	IV	Bio soja	Fatty acid esters
Vegetable oil	Quimíoleo	Insecticide/Adjuvant	1.000,0-2.000,0	s/r	EW	IV	IV	Fênix Agro-Pecus	Fatty acid esters
Vegetable oil	Veget Oil	Insecticide	1.000	s/r	EC	IV	IV	Oxiquímica	Fatty acid esters
Vegetable oil	Vision	Insecticide/Adjuvant	500-1000,00	s/r	EC	IV	IV	Oxiquímica	Fatty acid esters
Zeta-Cipermetrina	Mustang 350 EC	Insecticide	5,0-10,0	3	EC	II	I	FMC	Pyrethroids

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## 2- List of herbicides

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ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harvest Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
Carfentrazone-ethyl	Affinity 400 EC	Herbicide	75,0-125,0 mL/ha+0,5% oil	15	EC	II	II	FMC	Triazolone
Carfentrazone-ethyl	Aurora	Herbicide	75,0-125,0 mL/ha+0,5% oil	15	EC	II	II	FMC	Triazolone
Diquat dibromide	Helmoquat	Herbicide	1,5-2,5 L/ha	14	SL	I	II	Helm	Bipyridylum
Diquat dibromide	Reglone	Herbicide	1,5-2,5 L/ha	14	SL	I	II	Syngenta	Bipyridylum
Diuron	Abone	Herbicide	3,2-6,4 L/ha	60	SC	III	II	Albaugh	Urea
Diuron	Diuron Fersol 500 SC	Herbicide	1,8-3,5 kg/ha	60	SC	II	II	Ameribrás	Urea
Diuron	Diuron Nortox	Herbicide	2,0-4,0 L/ha	110	WP	III	II	Nortox	Urea
Diuron	Diuron Nortox 500 SC	Herbicide	3,2-6,4 L/ha	110	SC	III	II	Nortox	Urea
Diuron	Herburon 500 BR	Herbicide	3,2-6,4 L/ha	60	SC	III	II	Adama	Urea
Diuron	Karmex	Herbicide	2,0-4,0 kg/ha	60	WG	III	II	Adama	Urea
Diuron+Paraquat dichloride	Gramocil	Herbicide	2,0 L/ha	60	SC	I	II	Syngenta	Urea + Bipyridylum
Flumioxazin	Flumyzin 500	Herbicide	50,0-240,0 g/ha	7	WP	II	III	Sumitomo	Cyclohexenodicarboximide
Flumioxazin	Flumyzin 500 SC	Herbicide	50,0-240,0 mL/ha	7	SC	IV	III	Sumitomo	Cyclohexenodicarboximide
Flumioxazin	Sumisoya	Herbicide	50,0-240,0 g/ha	7	WP	II	III	Sumitomo	Cyclohexenodicarboximide
Flumioxazin	Sumisoya 500 SC	Herbicide	50,0-240,0 mL/ha	7	SC	IV	III	Sumitomo	Cyclohexenodicarboximide
Flumioxazin	Sumyzin 500 SC	Herbicide	50,0-240,0 mL/ha	7	SC	IV	III	Sumitomo	Cyclohexenodicarboximide
Glufosinate-ammonium	Fascinate BR	Herbicide	2,0 L/ha	40	SL	I	III	UPL	Thiocarbamates
Glufosinate-ammonium	Finale	Herbicide	2,0 L/ha	40	SG	I	III	Basf	Thiocarbamates
Glufosinate-ammonium	Glucare	Herbicide	2,0 L/ha	40	SL	Cat 5	III	Rainbow	Thiocarbamates
Glufosinate-ammonium	Glufosinate-ammonium200 SL Yonon	Herbicide	2,0 L/ha	40	SL	Cat 5	III	Yonon	Thiocarbamates
Glufosinate-ammonium	Patrol SL	Herbicide	2,0 L/ha	40	SL	I	III	Adama	Thiocarbamates
Glyfosate -ammonium	Glifocopa 720 WG	Herbicide	250,0-1750,0 g/100 L	30	WG	Cat 5	III	Copalliance	Glycine derivatives
Glyfosate -ammonium	Zafera	Herbicide	0,75-3,5 L/ha	30	WG	III	III	Alta	Glycine derivatives
Glyphosate - Potassium Salt	Xeque Mate	Herbicide	0,7-4,2 L/ha	30	SL	III	III	Iharabras	Glycine derivatives
Glyphosate - Potassium Salt	Zapp QI 620	Herbicide	0,7-4,3 L/ha	30	SL	N/C	III	Syngenta	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Astral	Herbicide	0,5-6,0 L/ha	30	SL	I	III	Prentiss	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Credit	Herbicide	0,5-6,0 L/ha	17	SL	III	III	Nufarm	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Crucial	Herbicide	1,0-4,0 L/ha	30	SL	I	III	Nufarm	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Direct	Herbicide	0,5-3,5 g/ha	30	WG	III	III	Monsanto	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Fusta WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Gli Ouro	Herbicide	1,0-5,0 L/ha	30	SL	III	III	Ouro Fino	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Gliato	Herbicide	1,0-5,0 L/ha	30	SL	II	III	Prentiss	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Gliforte	Herbicide	0,5-3,0 L/ha	30	SP	II	III	Tundra	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato 480 Agripec	Herbicide	1,0-6,0 L/ha	30	SL	I	III	Sumitomo	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato 480 SL Alamos	Herbicide	0,5-6,0 L/ha	30	SL	I	III	Alamos	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato Agripec 720 WG	Herbicide	0,5-2,5 kg/ha	30	WG	II	III	Sumitomo	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato Alta 480 SL	Herbicide	0,5-12,0 L/ha	30	SL	III	III	Alta	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato Atanor	Herbicide	1,0-6,0 L / ha	30	SL	III	III	Albaugh	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato Atar	Herbicide	1,0-6,0 L / ha	30	SL	III	III	Albaugh	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato Atar 48	Herbicide	1,0-6,0 L / ha	30	SL	III	III	Albaugh	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato CCAB 480 SL	Herbicide	0,75-5,0 L/ha	30	SL	II	III	CCAB Agro	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato CCAB BR	Herbicide	0,5-6,0 L/ha	30	AL	I	III	CCAB Agro	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato CHD'S	Herbicide	1,0-6,0 L/ha	30	SL	N/C	III	CHDS do Brasil	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato IPA 480 Rainbow	Herbicide	1,0-6,0 L/ha	30	SL	I	III	Rainbow	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato Nortox	Herbicide	1,0-6,0 L/ha	30	SL	III	III	Nortox	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato Nortox 480 BR	Herbicide	1,0-5,0 L/ha	30	SL	III	III	Nortox	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato Nortox 480 SL	Herbicide	2,0-6,0 L/ha	30	SL	III	III	Nortox	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifosato Nortox WG	Herbicide	0,5-2,5 kg/ha	30	WG	IV	III	Nortox	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glifoxin	Herbicide	1,0-4,0 L/ha	30	SL	III	III	Helm	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glister	Herbicide	1,0-4,0 L/ha	30	SL	II	III	Sinon	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	GLI-UP 480 SL	Herbicide	1,0-5,0 L/ha	30	SL	III	III	Cropchem	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	GLI-UP 720 WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Cropchem	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glizmax Prime	Herbicide	0,75-4,5 L/ha	30	SL	III	III	Dow	Glycine derivatives

# ProteCitrus - Citrus Protection Products

## 2- List of herbicides

List drawn up by the ProteCitrus Technical Committee, updated 14th august 2020

ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harvest Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
Glyphosate; Glifosato-isopropylammonium	Glyphon	Herbicide	1,5-6,0 L/ha	30	SL	I	III	Nortox	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glyphotal TR	Herbicide	1,0-4,5 L/ha	30	SL	II	III	UPL	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Glyphotal WG	Herbicide	0,75-3,0 kg/ha	30	WG	III	III	United Phosphorus	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Mademato	Herbicide	1,0-5,0 L/ha	30	SL	I	III	DIPIL	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Nufosate	Herbicide	0,5-6,0 L/ha	30	SL	III	III	Nufarm	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Nufosate BR	Herbicide	1,0-5,0 L/ha	30	SL	II	III	Nufarm	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Nufosate WG	Herbicide	0,5-3,5 kg/ha	30	SL	III	III	Nufarm	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Pilarsato	Herbicide	1,0-5,0 L/ha	30	SL	I	III	Pilarquim	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Potensato	Herbicide	0,5-5,0 L/ha	30	SL	III	III	Stockton	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Preciso	Herbicide	0,5-3,5 L/ha	30	WG	III	III	Albaugh	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Radar	Herbicide	0,5-5,0 L/ha	30	SL	III	III	Monsanto	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Radar WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Ridover	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Rainbow	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Rodeo	Herbicide	1,0-4,0 L/ha	30	SL	IV	III	Monsanto	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Roundup Original	Herbicide	0,5-12,0 L/ha	30	SL	III	III	Monsanto	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Roundup Original DI	Herbicide	1,0-6,0 L / ha	30	SL	II	III	Monsanto	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Roundup Transorb	Herbicide	0,75-4,5 L/ha	30	SL	II	III	Monsanto	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Roundup WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Rustler	Herbicide	0,5-5,0 L/ha	30	SL	III	III	Monsanto	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Rustler WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Shadow	Herbicide	1,0-6,0 L / ha	30	SL	III	III	Albaugh	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Shadow 480 SL	Herbicide	1,0-5,0 L/ha	30	SL	III	III	Albaugh	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Soldier	Herbicide	0,50-3,5	30	WG	III	III	Rainbow	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Stinger	Herbicide	0,5-5,0 L/ha	30	SL	IV	III	Monsanto	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Stinger WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Monsanto	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Sumô	Herbicide	1,0-5,0 L/ha	30	SL	III	III	Pilarquim	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Teardown	Herbicide	1,0-4,0 L/ha	30	SL	II	III	Sinon	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Templo	Herbicide	1,0-4,0 L/ha	30	SL	III	III	Ourofino	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Trop	Herbicide	1,0-6,0 L/ha	30	SL	III	III	Adama	Glycine derivatives
Glyphosate; Glifosato-isopropylammonium	Tupan 720 WG	Herbicide	0,5-3,5 kg/ha	30	WG	III	III	Cropchem	Glycine derivatives
Indaziflam	Alion	Herbicide	150-200 ml/ha	35	SC	III	III	Bayer	Alkyl Azide
Paraquat dichloride	Flak 200 SL	Herbicide	1,5-2,0 L/ha	1	SL	I	III	Cropchem	Bipyridylum
Paraquat dichloride	Gramoking	Herbicide	1,5-2,0 L/ha	1	SL	I	III	Rainbow	Bipyridylum
Paraquat dichloride	Gramoxone 200	Herbicide	1,5-2,0 L/ha	1	SL	I	II	Syngenta	Bipyridylum
Paraquat dichloride	Helmoxone	Herbicide	1,5-2,0 L/ha	1	SL	I	II	Helm	Bipyridylum
Paraquat dichloride	Nuquat	Herbicide	1,5-2,0 L/ha	1	SL	I	III	Nufarm	Bipyridylum
Paraquat dichloride	Orbit	Herbicide	1,5-2,0 L/ha	1	SL	I	II	Sinon	Bipyridylum
Paraquat dichloride	Paradox	Herbicide	1,5-3,0 L/ha	7	SL	I	II	Sinon	Bipyridylum
Paraquat dichloride	Paraquate Alta 200 SL	Herbicide	1,5-2,0 L/ha	1	SL	I	III	Alta	Bipyridylum
Paraquat dichloride	Quatdown	Herbicide	1,5-2,0 L/ha	1	SL	I	III	Rainbow	Bipyridylum
Paraquat dichloride	Sprayquat	Herbicide	1,5-2,0 L/ha	1	SL	I	III	Rainbow	Bipyridylum
Saflufenacil	Heat	Herbicide	35-70 g/ha	7	WG	III	III	Basf	Uracyl

## ProteCitrus - Citrus Protection Products

### 3- List of plant hormones

List drawn up by the ProteCitrus Technical Committee, updated 14th august 2020

ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harverst Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
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
Acibenzolar-S-methyl	Bion 500 WG	Plant Activator	80,0	s/r	WG	III	III	Syngenta	benzothiadiazole
Gibberellic acid	Pro-Gibb	Plant growth regulator	400 g/2000 L	s/r	SP	II	IV	Sumitomo	Gibberellin
Gibberellic acid	Progibb 400	Plant growth regulator	6,25	s/r	WG	III	IV	Sumitomo	Gibberellin

### 4- List of pheromones and ant bait

List drawn up by the ProteCitrus Technical Committee, updated 14th august 2020

ACTIVE INGREDIENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harverst Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CHEMICAL GROUP
(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
Fipronil	Blitz	Anticide	5,0-10,0 g/m <sup>2</sup>	nd	GB	IV	II	Basf	Phenyl pyrezole
Sulfluramid	Fluramim	Anticide	6,0-30,0 g/m <sup>2</sup>	nd	GB	IV	II	Adama	fluoroaliphatic sulfonamide
Sulfluramid	Formicida Granulado Dinagro-S	Anticide	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Dinagro	fluoroaliphatic sulfonamide
Sulfluramid	Grão Verde AG	Anticide	6,0-10,0 g/m <sup>2</sup>	nd	GB	III	III	DIPIL	fluoroaliphatic sulfonamide
Sulfluramid	Isca Formicida Atta Mex-S	Anticide	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Unibrás	fluoroaliphatic sulfonamide
Sulfluramid	Mirex-S	Anticide	6,0-20,0 g/m <sup>2</sup>	nd	GB	IV	III	Atta Kill	fluoroaliphatic sulfonamide
Sulfluramid	Mirex-S 2	Anticide	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Atta Kill	fluoroaliphatic sulfonamide
Sulfluramid	Mirex-S Max	Anticide	6,0-10,0 g/m <sup>2</sup>	nd	GB	IV	III	Atta Kill	fluoroaliphatic sulfonamide
Trimedlure	Bio Trimedlure	Pheromone	1 Trap/ha	-	GE	IV	-	Bio Controle	Saturated esters
Trimedlure	Iscalure TML Plug	Pheromone	1 Trap/ha	-	GE	-	-	ISCA tecnologias	Saturated esters

# ProteCitrus - Citrus Protection Products

## 5- List of biological agents

List drawn up by the ProteCitrus Technical Committee, updated 14th august 2020

BIOLOGICAL AGENTS	PRODUCTS	CLASSIFICATION	DOSAGE (mL or g /100L)	PHI Pre Harvest Interval (days)	FORMULATE	TOXICOLOGICAL	ENVIRONMENTAL	REGISTRANT	CLASSIFICATION
<i>Bacillus amyloliquefaciens</i>	Duravel	Microbiological Fungicide	0,5-1,0 kg/ha	s/r	WP	III	IV	Basf	Biological
<i>Bacillus amyloliquefaciens</i>	Eco-Shot	Microbiological Fungicide	0,1-4,0 kg	s/r	WG	III	IV	Iharabras	Biological
<i>Bacillus amyloliquefaciens</i>	No-Nema	Microbiological Nematicide	0,5-4,0 L/há	s/r	SC	IV	IV	Biovalens	Biological
<i>Bacillus methylophilus</i>	Onix OG	Microbiological Nematicide	0,6 L/há	s/r	SC	IV	IV	Lallemand	Biological
<i>Bacillus subtilis</i>	Bio-immune	Microbiological Fungicide	0,5-8,0 L/ha	s/r	SC	IV	IV	Biovalens	Biological
<i>Bacillus subtilis</i>	Biobac	Microbiological Fungicide/Bactericide/ Nematicide	0,8-4,0 kg/100 L water	s/r	WP	IV	IV	UPL	Biological
<i>Bacillus subtilis</i>	Biobaci	Microbiological Nematicide	1,5-6,0 L/ha	s/r	SC	IV	IV	Biovalens	Biological
<i>Bacillus subtilis</i>	Rizos OG	Microbiological Nematicide	4,0-8,0 L/ha	s/r	SC	IV	IV	Lallemand	Biological
<i>Bacillus subtilis</i>	Serenade	Microbiological Bactericide / Fungicide	2,0-4,0 L/ha	s/r	SC	III	IV	Bayer	Biological
<i>Bacillus subtilis</i> + <i>Bacillus licheniformis</i>	Quartzo	Microbiological Nematicide	130-200 g/ha	s/r	WS	III	IV	FMC	Biológico
<i>Bacillus thuringiensis</i>	Able	Biological Insecticide	50,0	s/r	SC	III	IV	Mitsui	Biological
<i>Bacillus thuringiensis</i>	Agree	Biological Insecticide	50,0	s/r	WP	III	IV	Bio Controle	Biological
<i>Bacillus thuringiensis</i>	BT-Turbo Max	Microbiological Insecticide	0,5-1,0 L/ha	s/r	SC	IV	IV	Biovalens	Biological
<i>Bacillus thuringiensis</i>	Bac Control Max EC	Biological Insecticide	22,0 a 27,0	s/r	EC	IV	IV	Vector Control	Biological
<i>Bacillus thuringiensis</i>	Bac-Control WP	Biological Insecticide	50,0	s/r	WP	IV	IV	Vector Control	Biological
<i>Bacillus thuringiensis</i>	BTControl	Biological Insecticide	500,0-750,0 g/ha	s/r	SC	IV	IV	Simbiose	Biological
<i>Bacillus thuringiensis</i>	Costar	Microbiological Insecticide	40-60	s/r	WG	I	IV	Mitsui	Biological
<i>Bacillus thuringiensis</i>	Crystal	Microbiological Insecticide	1,0 L/ha	s/r	SC	IV	IV	Lallemand	Biological
<i>Bacillus thuringiensis</i>	Dipel	Biological Insecticide	1-1,5 L/2000 L	s/r	SC	IV	IV	Sumitomo	Biological
<i>Bacillus thuringiensis</i>	Dipel WG	Biological Insecticide	25,0-37,5	s/r	WG	II	IV	Sumitomo	Biological
<i>Bacillus thuringiensis</i>	Dipel WP	Biological Insecticide	50,0	s/r	WP	II	IV	Sumitomo	Biological
<i>Bacillus thuringiensis</i>	Helymax EC	Microbiological Insecticide	33-40,5 mL	s/r	EC	IV	IV	Ballagro	Biological
<i>Bacillus thuringiensis</i>	Thuricide	Microbiological Insecticide	30,0	s/r	WP	IV	IV	Bio Controle	Biológico
<i>Bacillus thuringiensis</i>	Thuricide SC	Microbiological Insecticide	1000-2000 mL/ha	sr	SC	II	IV	Mitsui	Biological
<i>Beauveria bassiana</i>	Ballvéria	Microbiological Insecticide	0,15-8,0 kg/ha	s/r	WP	IV	IV	Ballagro	Biological
<i>Beauveria bassiana</i>	BeauveControl	Microbiological Insecticide	375-4000 g/ha	s/r	WP	IV	IV	Simbiose	Biological
<i>Beauveria bassiana</i>	Bovemax EC	Biological Insecticide	1,5-2,0 L/ha	s/r	EC	IV	IV	Novozymes	Biological
<i>Beauveria bassiana</i>	Boveril WP PL 63	Microbiological Insecticide	2,0-20 kg/ha	s/r	WP	III	IV	Koppert	Biological
<i>Beauveria bassiana</i>	Bovéria-Turbo	Microbiological Insecticide/Bactericide	0,4 a 4,3 kg/ha	s/r	WP	IV	IV	Biovalens	Biological
<i>Beauveria bassiana</i>	Granada	Microbiological Insecticide/Acaricide	75-500 g/ha	s/r	WP	IV	IV	Lallemand	Biological
<i>Hirsutella thompsonii</i>	SkupaMite	Microbiological Acaricide	1,5-2,5 L/há	s/r	SL	III	IV	Maneogene	Biological
<i>Isaria fumosorosea</i>	Challenger	Microbiological Insecticide	100,0-400,0	s/r	SC	III	IV	Koppert	Biological
<i>Isaria fumosorosea</i>	Octane	Microbiological Insecticide	1000-1500 mL/ha	s/r	SC	III	IV	Koppert	Biological



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<i>Metarhizium anisopliae</i>	Meta-Turbo SC	Microbiological Insecticide	1,0-4,0 L/há	s/r	SC	-	IV	Biovalens	Biological
<i>Metarhizium anisopliae</i>	Metaril WP E9	Microbiological Insecticide	500,0-750,0 g/ha	s/r	WP	IV	IV	Koppert	Biological
<i>Metarhizium anisopliae</i>	Methacontrol	Biological Insecticide	1,7-26,7 kg/ha	s/r	WP	IV	IV	Simbiose	Biological
<i>Metarhizium anisopliae</i>	Metiê	Microbiological Insecticide	0,075-2,0 kg/ha	s/r	WP	IV	IV	Ballagro	Biological
<i>Metarhizium anisopliae</i> + <i>Beauveria bassiana</i>	Dobbel	Microbiological Insecticide	1,0-1,5 L/há	s/r	SC	IV	IV	Maneogene	Biological
<i>Neoseiulus californicus</i>	Spical	Biological Acaricide	20.000 mites/ha	s/r	Live mites	-	IV	Koppert	Biological
<i>Paecilomyces fumosoroseus</i>	Aptur-PF	Biological Insecticide	1,5-2,0 L/ha	s/r	SL	IV	IV	Maneogene	Biological
<i>Paecilomyces lilacinus</i>	Nemakill	Microbiological Nematicide	1,0-4,0 L/há	s/r	SL	IV	IV	Maneogene	Biological
<i>Paecilomyces lilacinus</i>	Nemat	Microbiological Nematicide	100,0-600,0 g/ha	s/r	WP	IV	IV	Ballagro	Biological
<i>Trichoderma asperellum</i>	Bio-Hulk	Microbiological Fungicide	0,2-0,8 L/ha	s/r	EC	IV	IV	Biovalens	Biological
<i>Trichoderma asperellum</i>	Quality	Microbiological Fungicide	0,1 kg/ha	s/r	WG	III	IV	Lallemand	Biological
<i>Trichoderma asperellum</i>	Tricho-Turbo	Microbiological Fungicide	0,2-0,8 L/ha	s/r	EC	IV	IV	Biovalens	Biological
<i>Trichoderma harzianum</i>	Ecotrich WP	Microbiological Fungicide	0,15-0,25 kg/ha	s/r	WP	IV	IV	Ballagro	Biological
<i>Trichoderma harzianum</i>	StimuControl	Biological Fungicide	1,5-2,5 L/ha	s/r	SC	III	IV	Simbiose	Biological
<i>Trichoderma harzianum</i>	Trichodermil SC 1306	Fungicide / Nematicide Biological	0,5-1,0 L/ha	s/r	SC	III	IV	Koppert	Biological
<i>Trichogramma pretiosum</i>	Hunter	Biological Control Agent	100.000-750.000 adults/ha	s/r	Live Insects	-	IV	Koppert	Biological

### 6- List of alternative pesticides

List drawn up by the ProteCitrus Technical Committee, updated 14th august 2020

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

# ProteCitrus - Citrus Protection Products

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
Cat 1	Category 1 - Extremely Toxic Product		
Cat 2	Category 2 - Highly Toxic Product		
Cat 3	Category 3 - Moderately Toxic Product		
Cat 4	Category 4 - Low Toxic Product		
Cat 5	Category 5 - Improbable Product to Cause Acute Damage		
N/C	Unclassified - Unclassified Product		

s/r	No Restrictions
nd	No Defenitions
*	applied in post-harvest
-	Not Informed