

Registered product list for Pecan nuts in South Africa

Registrations against specific targets on pecan nuts obtained under Act 36 of 1947.



INSECTICIDES

Target	Group	Active ingredient	International Convention Status	Group code	Trade name	Form.	Reg. no.	Company	Active quantity	Dosage	PHI (days)	MRL notes
Ants	botanical + aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100 L	2	No set MRL
Ants	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100L	2	No set MRL
Ants	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	Pygar 932	SC	L7146	Kannar Earth Science (Pty) Ltd	473 g/L + 473 g/L + 2.75 g/L	1.5-2 L/100L	1	No set MRL
Aphids	botanical	garlic juice extract		-	Garlic Repellent 930	SC	L7147	Kannar Earth Science (Pty) Ltd	478 g/L	2-3 L/100L	0	
Aphids	botanical + aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100 L	2	No set MRL
Aphids	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100L	2	No set MRL
Aphids	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	Pygar 932	SC	L7146	Kannar Earth Science (Pty) Ltd	473 g/L + 473 g/L + 2.75 g/L	1.5-2 L/100L	1	No set MRL
Aphids	carbamates	pirimicarb	Restricted	IRAC 1A	Apex 500 WDG	WG	L8475	Villa Crop Protection (Pty) Ltd	500 g/kg	100 g/100L	56	
Aphids	carbamates	pirimicarb	Restricted	IRAC 1A	Aphox	WG	L3428	Syngenta South Africa (Pty) Ltd	500 g/kg	100 g/100L	56	
Aphids	carbamates	pirimicarb	Restricted	IRAC 1A	Unipex 500 WDG	WG	L8474	Villa Crop Protection (Pty) Ltd	500 g/kg	100 g/100L	56	
Aphids	neonicotinoids	imidacloprid	Restricted	IRAC 4A	Kohinor 350 SC	SC	L8447	Adama South Africa (Pty) Ltd	350 g/L	18 ml/tree	112	No set MRL
Aphids	organophosphates	chlorpyrifos	Phased out	IRAC 1B	Pyrinex 250 CS	CS	L6515	Adama South Africa (Pty) Ltd	250 g/L	200 ml/100L	83	
Astylus beetle	botanical + aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100 L	2	No set MRL
Astylus beetle	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100L	2	No set MRL
Astylus beetle	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	Pygar 932	SC	L7146	Kannar Earth Science (Pty) Ltd	473 g/L + 473 g/L + 2.75 g/L	1.5-2 L/100L	1	No set MRL
Banded fruit weevil	pyrethroids	alpha-cypermethrin	Restricted	IRAC 3A	Fastac SC	SC	L4992	BASF South Africa (Pty) Ltd	100 g/L	10 ml/100L	30	
Bark borer	carbamates	carbaryl	Phased out	IRAC 1A	Sevin XLR Plus	SC	L5783	Villa Crop Protection (Pty) Ltd	480 g/L	450 ml/100L	-	No set MRL
Bark borer	pyrethroids	beta-cyfluthrin		IRAC 3A	Bulldock Beta 125 SC	SC	L7612	Bayer (Pty) Ltd	125 g/L	1.2 ml/10L	-	
Bollworm	avermectins; milbemycins	emamectin benzoate		IRAC 6	Proclaim	SG	L7581	Syngenta South Africa (Pty) Ltd	50 g/kg	22-34 g/100L	14	
Bollworm	botanical + aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100 L	2	No set MRL
Bollworm	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100L	2	No set MRL
Bollworm	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	Pygar 932	SC	L7146	Kannar Earth Science (Pty) Ltd	473 g/L + 473 g/L + 2.75 g/L	1.5-2 L/100 L	1	No set MRL
Bollworm	diamides + pyrethroids	chlorantraniliprole + lambda-cyhalothrin		IRAC 28 + 3A	Ampligo	CS	L8685	Syngenta South Africa (Pty) Ltd	100 g/L + 50 g/L	200-500 ml/ha	14	
Bollworm	insect virus	Helicoverpa armigera nucleopolyhedrovirus		-	Helicovir	SC	L9543	River Bioscience (Pty) Ltd	5 x 10 ¹⁰ occlusion bodies/ml	12 ml/100L	Not applicable	

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Bollworm	pyrethroids	alpha-cypermethrin	Restricted	IRAC 3A	Fastac SC	SC	L4992	BASF South Africa (Pty) Ltd	100 g/L	5 ml/100L	30	
Carob moth	diamides + pyrethroids	chlorantraniliprole + lambda-cyhalothrin		IRAC 28 + 3A	Ampligo	CS	L8685	Syngenta South Africa (Pty) Ltd	100 g/L + 50 g/L	200-500 ml/ha	14	
CMR beetle	botanical + aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100 L	2	No set MRL
CMR beetle	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100L	2	No set MRL
CMR beetle	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	Pygar 932	SC	L7146	Kannar Earth Science (Pty) Ltd	473 g/L + 473 g/L + 2.75 g/L	1.5-2 L/100L	1	No set MRL
Codling moth	avermectins; milbemycins	emamectin benzoate		IRAC 6	Proclaim	SG	L7581	Syngenta South Africa (Pty) Ltd	50 g/kg	22-34 g/100L	14	
Codling moth	diamides + pyrethroids	chlorantraniliprole + lambda-cyhalothrin		IRAC 28 + 3A	Ampligo	CS	L8685	Syngenta South Africa (Pty) Ltd	100 g/L + 50 g/L	200-500 ml/ha	14	
European red mite	avermectins; milbemycins	abamectin	Restricted	IRAC 6	Agrimec Gold	SC	L9235	Syngenta South Africa (Pty) Ltd	84 g/L	130-320 ml/ha + 0.25% light mineral spray oil	14	No set MRL
False codling moth	avermectins; milbemycins	emamectin benzoate		IRAC 6	Proclaim	SG	L7581	Syngenta South Africa (Pty) Ltd	50 g/kg	22-34 g/100L	14	
False codling moth	diacylhydrazines	methoxyfenozide		IRAC 18	Cohort 240 SC	SC	L10866	FarmAg International (Pty) Ltd	240 g/L	60 ml/100L	14	
False codling moth	diacylhydrazines	methoxyfenozide		IRAC 18	Marksman 240 SC	SC	L10389	ICA International Chemicals (Pty) Ltd	240 g/L	60 ml/100L	14	
False codling moth	diacylhydrazines	methoxyfenozide		IRAC 18	Runner 240 SC	SC	L7779	Dow AgroSciences Southern Africa (Pty) Ltd	240 g/L	60 ml/100L	14	
False codling moth	diacylhydrazines	methoxyfenozide		IRAC 18	Walker 240 SC	SC	L10348	Villa Crop Protection (Pty) Ltd	240 g/L	60 ml/100L	14	
False codling moth	diacylhydrazines	methoxyfenozide		IRAC 18	Bolt 240 SC	SC	L11215	AECI Limited	240 g/L	60 ml/100L	14	
False codling moth	diacylhydrazines	methoxyfenozide		IRAC 18	Chimera 240 SC	SC	L11186	Adama South Africa (Pty) Ltd	240 g/L	60 ml/100L	14	
False codling moth	diamides	chlorantraniliprole	Monitored	IRAC 28	Altacor	WG	L8467	DuPont SA	350 g/kg	10 g/100L	10	
False codling moth	diamides	chlorantraniliprole	Monitored	IRAC 28	Coragen	SC	L8529	DuPont SA	200 g/L	17.5 ml/100L	10	
False codling moth	diamides + pyrethroids	chlorantraniliprole + lambda-cyhalothrin		IRAC 28 + 3A	Ampligo	CS	L8685	Syngenta South Africa (Pty) Ltd	100 g/L + 50 g/L	200-500 ml/ha	14	
False codling moth	insect virus	Thaumotobia (Cryptophlebia) leucotreta granulovirus		-	Cryptex	SC	L8037	Andermatt Madumbi (Pty) Ltd	2 x 10 ¹⁰ occlusion bodies/ml2	3.3 ml/100L	Not applicable	
False codling moth	insect virus	Thaumotobia (Cryptophlebia) leucotreta granulovirus		-	GraTham	SC	L9038	Chempac (Pty) Ltd	2 x 10 ¹⁰ occlusion bodies/ml	3.3 ml/100L	0	
False codling moth	microbials	Beauveria bassiana		-	Broadband	EC	L8270	BASF South Africa (Pty) Ltd	4 x 10 ⁹ spores/ml	50 ml/100L	0	
False codling moth	microbials	Beauveria bassiana		-	Eco-Bb	SC	L8469	Andermatt Madumbi (Pty) Ltd	2 x 10 ⁹ spores/g	1 g/L	0	
False codling moth	neonicotinoids + benzoylureas	acetamiprid + novaluron		IRAC 4A + 15	Cormoran 180 EC	EC	L9480	Adama South Africa (Pty) Ltd	80 g/L + 100 g/L	50-75 ml/100L	84	
False codling moth	neonicotinoids + pyrethroids	acetamiprid + bifenthrin		IRAC 4A + 3A	Aceta Star 46 EC	EC	L9255	Adama South Africa (Pty) Ltd	16 g/L + 30 g/L	150 ml/100L	28	
False codling moth	oxadiazines	indoxacarb	Restricted	IRAC 22A	Steward 150 EC	EC	L8435	FMC Chemicals (Pty) Ltd	150 g/L	50 ml/100L	14	No set MRL
False codling moth	pheromones	(e)-8-dodecenyl acetate + (z)-8-dodecenyl acetate + (e/z)-8-dodecenol		-	RB Splat FCM	PA	L10259	River Bioscience (Pty) Ltd	30 g/kg	1000 g/ha	0	

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False codling moth	pheromones	(e)-8-dodecenyl acetate + (z)-8-dodecenyl acetate + (e/z)-8-dodecenol		-	X-Mate F.C.M.	GS	L10320	Insect Science (Pty) Ltd	962.5 mg + 287.5 mg each	1 disp. / 250 m2 (25 disp.s / ha)	0	
False codling moth	pheromones	(e)-8-dodecenyl acetate + (z)-8-dodecenyl acetate + (e/z)-8-dodecenol		-	Isomate FCM	VP	L7692	AECI Limited	0.24 g/kg	800 disp./ha/season	0	
False codling moth	pheromones	(e)-8-dodecenyl acetate + (z)-8-dodecenyl acetate + (e/z)-8-dodecenol		-	CheckMate FCM-F	CS	L8384	Spectrum Research Services cc	175.2 g/L + 49.8 g/L	110 ml/ha	0	
False codling moth	spinosyns	spinetoram	Monitored	IRAC 5	Delegate 250 WG	WG	L8392	Dow AgroSciences Southern Africa (Pty) Ltd	250 g/kg	20 g/100L	7	
False codling moth	sterilized insect technique	sterilized False Codling Moth males		-	Xsit FCM SIT	-	L10346	Xsit (Pty) Ltd / Edms. Bpk	14 000 per Pack	See label	0	
Leaf roller	avermectins; milbemycins	emamectin benzoate		IRAC 6	Proclaim	SG	L7581	Syngenta South Africa (Pty) Ltd	50 g/kg	22-34 g/100L	14	
Litchi moth	diamides + pyrethroids	chlorantraniliprole + lambda-cyhalothrin		IRAC 28 + 3A	Ampligo	CS	L8685	Syngenta South Africa (Pty) Ltd	100 g/L + 50 g/L	200-500 ml/ha	14	
Macadamia nut borer	avermectins; milbemycins	emamectin benzoate		IRAC 6	Emma	WG	L9022	Arysta LifeScience South Africa (Pty) Ltd	50 g/kg	See label	50	
Macadamia nut borer	avermectins; milbemycins	emamectin benzoate		IRAC 6	Vitex 50	WG	L9525	Meridian Agrochemical Company (Pty) Ltd	50 g/kg	30 g/100L	50	
Macadamia nut borer	avermectins; milbemycins	emamectin benzoate		IRAC 6	Conflict Granule	WG	L11195	Villa Crop Protection (Pty) Ltd	50 g/kg	See label	50	
Macadamia nut borer	neonicotinoids	acetamiprid		IRAC 4A	Alice 20 SP	SP	L8723	Arysta LifeScience South Africa (Pty) Ltd	200 g/kg	See label	50	
Macadamia nut borer	neonicotinoids	acetamiprid		IRAC 4A	Wonderland 200 SP	SP	L10057	FarmAg International (Pty) Ltd	200 g/L	See label	50	
Macadamia nut borer	organophosphates	acephate	Phased out	IRAC 1B	Orthene 75 SP	SP	L0190	Arysta LifeScience South Africa (Pty) Ltd	750 g/kg	75 g/100L	35	
Macadamia nut borer	spinosyns	spinetoram	Monitored	IRAC 5	Delegate 250 WG	WG	L8392	Dow AgroSciences Southern Africa (Pty) Ltd	250 g/kg	20 g/100L	7	
Mealybug	spore concentrate	Metarhizium anisopliae		-	Real Metarhizium 69	-	L9281	Real IMP South Africa Pty Ltd	At least 1 x 10 ⁹ cfu/ml	200-400 ml/ha	-	
Mealybug	sulfoximines	sulfoxaflor	Restricted	IRAC 4C	Closer 240 SC	SC	L9694	Dow AgroSciences Southern Africa (Pty) Ltd	240 g/L	12 ml/100L	14	
Red spider mite	avermectins; milbemycins	abamectin	Restricted	IRAC 6	Agrimec Gold	SC	L9235	Syngenta South Africa (Pty) Ltd	84 g/L	130-320 ml/ha + 0.25% light mineral spray oil	14	No set MRL
Red spider mite	botanical + aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100 L	2	No set MRL
Red spider mite	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100L	2	No set MRL
Red spider mite	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	Pygar 932	SC	L7146	Kannar Earth Science (Pty) Ltd	473 g/L + 473 g/L + 2.75 g/L	1.5-2 L/100L	1	No set MRL
Stem borer	carbamates	carbaryl	Phased out	IRAC 1A	Sevin XLR Plus	SC	L5783	Villa Crop Protection (Pty) Ltd	480 g/L	450 ml/100L	0	No set MRL
Stem borer	pyrethroids	beta-cyfluthrin		IRAC 3A	Bulldock Beta 125 SC	SC	L7612	Bayer (Pty) Ltd	125 g/L	1.2 ml/10L	-	

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Target	Group	Active ingredient	International Convention Status	Group code	Trade name	Form.	Reg. no.	Company	Active quantity	Dosage	PHI (days)	MRL notes
Stink bug	diamides + pyrethroids	chlorantraniliprole + lambda-cyhalothrin		IRAC 28 + 3A	Ampligo	CS	L8685	Syngenta South Africa (Pty) Ltd	100 g/L + 50 g/L	200-500 ml/ha	14	
Stink bug	neonicotinoids	thiamethoxam	Restricted	IRAC 4A	Actara SC	SC	L7207	Syngenta South Africa (Pty) Ltd	240 g/L	9 ml/tree followed by 6 ml/tree	93	No set MRL
Stink bug	organophosphates	acephate	Phased out	IRAC 1B	Acephate 750 SP	SP	L7181	Villa Crop Protection (Pty) Ltd	750 g/kg	75 g/100L	35	
Stink bug	organophosphates	chlorpyrifos	Phased out	IRAC 1B	Pyrinex 250 CS	CS	L6515	Adama South Africa (Pty) Ltd	250 g/L	200 ml/100L	83	
Stink bug	pyrethroids	alpha-cypermethrin	Restricted	IRAC 3A	Fastac SC	SC	L4992	BASF South Africa (Pty) Ltd	100 g/L	10 ml/100L	30	
Stink bug	pyrethroids	lambda-cyhalothrin	Restricted	IRAC 3A	Karate EC	EC	L3752	Syngenta South Africa (Pty) Ltd	50 g/L	10 ml/100L	7	
Stink bug	pyrethroids	lambda-cyhalothrin	Restricted	IRAC 3A	Karate Zeon 10 CS	CS	L9023	Syngenta South Africa (Pty) Ltd	100 g/L	5 ml/100L	7	
Stink bug	pyridine azomethine derivatives	pymetrozine	Restricted	IRAC 9B	Chess	WG	L8104	Syngenta South Africa (Pty) Ltd	500 g/kg	40 g/100L	21	
Thrips	botanical + aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100 L	2	No set MRL
Thrips	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100L	2	No set MRL
Thrips	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	Pygar 932	SC	L7146	Kannar Earth Science (Pty) Ltd	473 g/L + 473 g/L + 2.75 g/L	1.5-2 L/100L	1	No set MRL
Thrips	neonicotinoids	imidacloprid	Restricted	IRAC 4A	Kohinor 350 SC	SC	L8447	Adama South Africa (Pty) Ltd	350 g/L	18 ml/tree	112	No set MRL
Thrips	organophosphates	chlorpyrifos	Phased out	IRAC 1B	Pyrinex 250 CS	CS	L6515	Adama South Africa (Pty) Ltd	250 g/L	200 ml/100L	83	
Thrips	spinosyns	spinetoram	Monitored	IRAC 5	Delegate 250 WG	WG	L8392	Dow AgroSciences Southern Africa (Pty) Ltd	250 g/kg	10 g/100L	7	
Thrips	spore concentrate	Metarhizium anisopliae		-	Real Metarhizium 69	-	L9281	Real IMP South Africa Pty Ltd	At least 1 x 10 ⁹ cfu/ml	200-400 ml/ha	-	
Whitefly	botanical + aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100 L	2	No set MRL
Whitefly	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	KangroShield 100	SC	L7630	Kannar Earth Science (Pty) Ltd	250 g/L + 642 g/L + 50 g/L + 14 g/L	500 ml/100L	2	No set MRL
Whitefly	botanical + cyclic aromatic + pyrethrin	canola oil + garlic juice extract + pyrethrin extract		IRAC 3A	Pygar 932	SC	L7146	Kannar Earth Science (Pty) Ltd	473 g/L + 473 g/L + 2.75 g/L	1.5-2 L/100L	1	No set MRL

Note: Not all listed targets cause problems in pecan nut orchards.

The provider cannot accept any liability for the accuracy of the list.

Growers are advised to read the product label before application, and apply products at their own risk.

Formulation notes: EC - Emulsifiable concentrate, WG - Water-dispersible granule, SL - Soluble concentrate, SC - Suspension Concentrate, CS - Capsule suspension, SG - Water soluble granule, GS - Grease, EW - Oil-in-water emulsion, VP - Vapour releasing product, SP - Water-soluble powder.

High risk active ingredients have been categorized based on a) WHO 1A and 1B lists of highly hazardous active ingredients, b) EU PIC lists or c) the Rotterdam and Stockholm Conventions.

Banned actives should not be used where alternatives exist, and are internationally being phased out, usage is restricted and alternatives must be considered.

Restricted actives pose risks without many alternatives available. For this class, it is advised that mitigation programs are implemented. Highly restricted actives have implications per specific crop and country.

Alternatives should be implemented for phased out actives.

Monitored actives have related concerns and might become restricted or banned in the future.

PHI = Pre-harvest interval (withholding period). Time from spray or application up to harvest or handling of nut in husk - measured in days.

- No PHI applicable.