

Registered product list for Macadamias in South Africa

According to registrations obtained under Act 36 of 1947

INSECTICIDES

Target	Group	Active ingredient	Group code	Trade name	Form.	Reg. no.	Company	Active quantity	Dosage	PHI	MRL notes
Aphids	neonicotinoids	imidacloprid	IRAC 4A	Kohinor 350 SC	SC	L8447	Adama South Africa (Pty) Ltd	350 g/L	18 ml/tree	112	No set MRL
	organophosphates	chlorpyrifos	IRAC 1B	Pyrinex 250 CS	CS	L6515	Adama South Africa (Pty) Ltd	250 g/L	200 ml/100L	83	
Banded fruit weevil	pyrethroids	alpha-cypermethrin	IRAC 3A	Fastac EC	EC	L4991	BASF South Africa (Pty) Ltd	100 g/L	10 ml/100L	30	
	pyrethroids	alpha-cypermethrin	IRAC 3A	Fastac SC	SC	L4992	BASF South Africa (Pty) Ltd	100 g/L	10 ml/100L	30	
Bark borer	carbamates	carbaryl	IRAC 1A	Sevin XLR Plus	SC	L5783	Villa Crop Protection (Pty) Ltd	480 g/L	450 ml/100L	0	No set MRL
	avermectins; milbemycins	emamectin benzoate	IRAC 6	Proclaim	SG	L7581	Syngenta South Africa (Pty) Ltd	50 g/kg	22-34 g/100L	14	
	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	<i>Helicoverpa armigera</i> nucleopolyhedrovirus	-	Helicovir	SC	L9543	River Bioscience (Pty) Ltd	5 x 10 ⁹ occlusion bodies/ml	12 ml/100L	0	
	pyrethroids	alpha-cypermethrin	IRAC 3A	Fastac EC	EC	L4991	BASF South Africa (Pty) Ltd	100 g/L	10 ml/100L	30	
	pyrethroids	alpha-cypermethrin	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	
Coconut bug	neonicotinoids	clothianidin	IRAC 4A	Samurai 20 SC	SC	L10384	Philagro South Africa (Pty) Ltd	200 g/L	5 ml/100L	56	
	pyrethroids	esfenvalerate	IRAC 3C	Sumi-Alpha 200 EW	EW	L8821	Philagro South Africa (Pty) Ltd	200 g/L	2 ml/100L	56	
Codling moth	avermectins; milbemycins	emamectin benzoate	IRAC 6	Proclaim	SG	L7581	Syngenta South Africa (Pty) Ltd	50 g/kg	22-34 g/100L	14	
	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	IRAC 6	Agrimec Gold	SC	L9235	Syngenta South Africa (Pty) Ltd	84 g/L	130-320 ml/ha	14	No set MRL
	avermectins; milbemycins	emamectin benzoate	IRAC 6	Proclaim	SG	L7581	Syngenta South Africa (Pty) Ltd	50 g/kg	22-34 g/100L	14	
	diacylhydrazines	methoxyfenozide	IRAC 18	Advisor 240 SC	SC	L10550	Villa Crop Protection (Pty) Ltd	240 g/L	60 ml/100L	14	
	diacylhydrazines	methoxyfenozide	IRAC 18	Assessor 240 SC	SC	L10349	Villa Crop Protection (Pty) Ltd	240 g/L	60 ml/100L	14	
	diacylhydrazines	methoxyfenozide	IRAC 18	Cohort 240 SC	SC	L0866	FarmAg International (Pty) Ltd	240 g/L	60 ml/100L	14	
	diacylhydrazines	methoxyfenozide	IRAC 18	Marksman 240 SC	SC	L10389	ICA International Chemicals (Pty) Ltd	240 g/L	60 ml/100L	14	
	diacylhydrazines	methoxyfenozide	IRAC 18	Runner 240 SC	SC	L7779	Dow AgroSciences Southern Africa (Pty) Ltd	240 g/L	60 ml/100L	14	
	diacylhydrazines	methoxyfenozide	IRAC 18	Walker 240 SC	SC	L10348	Villa Crop Protection (Pty) Ltd	240 g/L	60 ml/100L	14	
	diamides	chlorantraniliprole	IRAC 28	Altacor	WG	L8467	FMC Chemicals (Pty) Ltd	350 g/kg	10 g/100L	10	
	diamides	chlorantraniliprole	IRAC 28	Coragen	SC	L8529	DuPont SA	200 g/L	17.5 ml/100L	10	
	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	
	insect virus	<i>Thaumotobia (Cryptophlebia) leucotreta</i> granulovirus	-	GraTham	SC	L9038	Chempac (Pty) Ltd	2 x 10 ¹⁰ occlusion bodies/mm	3.3 ml/100L	0	
	insect virus	<i>Thaumotobia (Cryptophlebia) leucotreta</i> granulovirus	-	Cryptogran	SC	L7598	River Bioscience (Pty) Ltd	5 x 10 ¹⁰ occlusion bodies/ml	10 ml/100L	0	
	False codling moth	insect virus	<i>Thaumotobia (Cryptophlebia) leucotreta</i> granulovirus	-	Cryptex	SC	L8037	Madumbi Sustainable Agriculture (Pty) Ltd	2 x 10 ¹⁰ occlusion bodies/ml	3.3 ml/100L	0
microbials		<i>Beauveria bassiana</i>	-	Broadband	EC	L8270	BASF South Africa (Pty) Ltd	4 x 10 ⁹ spores/ml	50 ml/100L	0	
microbials		<i>Beauveria bassiana</i>	-	Eco-Bb	SC	L8469	Madumbi Sustainable Agriculture (Pty) Ltd	2 x 10 ⁹ spores/g	1 g/L	0	
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	
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	
oxadiazines		indoxacarb	IRAC 22A	Steward 150 EC	EC	L8435	FMC Chemicals (Pty) Ltd	150 g/L	50 ml/100L	14	No set MRL
pheromones		(e)-8-dodecenyl acetate + (z)-8-dodecenyl acetate + (e/z)-8-dodecenol	-	Check-Mate FCM-F	CS	L8384	Spectrum Research Services cc	175.2 g/L + 49.8 g/L	110 ml/ha	0	
pheromones		(e)-8-dodecenyl acetate + (z)-8-dodecenyl acetate + (e/z)-8-dodecenol	-	Isomate FCM	VP	L7692	Nulandis	0.24 g/kg	800 disp./ha/season	0	
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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According to registrations obtained under Act 36 of 1947



INSECTICIDES

	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	Nulandis	0.24 g/kg	800 disp./ha/season	0	
	pheromones + pyrethroids	(e)-7-dodecenyl acetate + (e)-8-dodecenyl acetate + (z)-8-dodecenyl acetate + permethrin	IRAC 3A	Last Call F.C.M.	GS	L6973	Insect Science (Pty) Ltd	4 g/kg + 4 g/kg + 4 g/kg + 60 g/kg	140-150 g/ha	0	
	spinosyns	spinetoram	IRAC 5	Delegate 250 WG	WG	L8392	Dow AgroSciences Southern Africa (Pty) Ltd	250 g/kg	20 g/100L	7	
	sterilized insect technique	sterilized FCM 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	
	avermectins; milbemycins	emamectin benzoate	IRAC 6	Vitex 50	WG	L9525	Meridian Agrochemical Company (Pty) Ltd	50 g/kg	30 g/100L	50	
	neonicotinoids	acetamiprid	IRAC 4A	Allice 20 SP	SP	L8723	Arysta LifeScience South Africa (Pty) Ltd	200 g/kg	50 g or 40 g /100L	50	
	neonicotinoids	acetamiprid	IRAC 4A	Wonderland 200 SP	SP	L10057	FarmAg International (Pty) Ltd	200 g/L	50 g or 40 g + 20 g emamectin benzoate 50 g/kg WG /100L	50	
Macadamia nut borer	organophosphates	acephate	IRAC 1B	Orthene 75 SP	SP	L0190	Arysta LifeScience South Africa (Pty) Ltd	750 g/kg	75 g/100L	35	
	pheromones	(z)-8-dodecenyl acetate	-	M.N.B. PheroLure	VP	L8257	Insect Science (Pty) Ltd	0.08 mg/lure	1 trap/4-5 ha	0	
	pheromones	(z)-8-dodecenyl acetate + permethrin	IRAC 3A	X-Mate M.N.B.	VP	L10319	Insect Science (Pty) Ltd	1.25 g each	1 disp. / 400 m2 (25 disp.s / ha)	0	
	pheromones + pyrethroids	(z)-8-dodecenyl acetate + permethrin	IRAC 3A	Last Call M.N.B.	GS	L7249	Insect Science (Pty) Ltd	1.6 g/kg + 60 g/kg	150 g/ha	0	
	spinosyns	spinetoram	IRAC 5	Delegate 250 WG	WG	L8392	Dow AgroSciences Southern Africa (Pty) Ltd	250 g/kg	20 g/100L	7	
Mealybug	organophosphates	chlorpyrifos	IRAC 1B	Dursban 750 WG	WG	L6589	Dow AgroSciences Southern Africa (Pty) Ltd	750 g/kg	64 g/100 L	83	
	spore concentrate	<i>Metarhizium anisopliae</i>	-	Real Metarhizium 69	-	L9281	Real IMP South Africa Pty Ltd	At least 1 x 10 ⁹ cfu/ml	200-400 ml/ha	-	
	sulfoximines	sulfoxaflor	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	IRAC 6	AgriSec Gold	SC	L9235	Syngenta South Africa (Pty) Ltd	84 g/L	130-320 ml/ha	14	No set MRL
Stem borer	carbamates	carbaryl	IRAC 1A	Sevin XLR Plus	SC	L5783	Villa Crop Protection (Pty) Ltd	480 g/L	450 ml/100L	-	No set MRL
	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	
	microbials	<i>Beauveria bassiana</i>	-	Broadband	EC	L8270	BASF South Africa (Pty) Ltd	4 x 10 ⁹ spores/ml	1000-2000 ml/ha	0	
	neonicotinoids	clothianidin	IRAC 4A	Samurai 20 SC	SC	L10384	Philagro South Africa (Pty) Ltd	200 g/L	5 ml/100L	56	
	neonicotinoids	thiamethoxam	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
	neonicotinoids	thiamethoxam	IRAC 4A	Pinnacle 240 SC	SC	L10688	FarmAg International (Pty) Ltd	240 g/L	9 ml/tree followed by 6 ml/tree	93	No set MRL
Stink bug	neonicotinoids	thiamethoxam	IRAC 4A	Thiatox 250 WDG	WG	L9190	Villa Crop Protection (Pty) Ltd	250 g/kg	9 g/tree followed by 6 g/tree	93	No set MRL
	neonicotinoids	thiamethoxam	IRAC 4A	Thiaxam 250 WDG	WG	L9191	Villa Crop Protection (Pty) Ltd	250 g/kg	9 g/tree followed by 6 g/tree	93	No set MRL
	organophosphates	acephate	IRAC 1B	Ace 750 SP	SP	L4175	Nulandis	750 g/kg	75 g/100L	35	
	organophosphates	acephate	IRAC 1B	Acephate 750 SP	SP	L7181	Villa Crop Protection (Pty) Ltd	750 g/kg	75 g/100L	35	
	organophosphates	chlorpyrifos	IRAC 1B	Pyrinex 250 CS	CS	L6515	Adama South Africa (Pty) Ltd	250 g/L	200 ml/100L	83	
	organophosphates + pyrethroids	chlorpyrifos + cypermethrin	IRAC 1B + 3A	Cyperfos 500 EC	EC	L7606	Nulandis	450 g/L + 50 g/L	105 ml/100L	83	

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INSECTICIDES

	organophosphates + pyrethroids	chlorpyrifos + cypermethrin	IRAC 1B + 3A	Lascar 500 EC	EC	L11007	FarmAg International (Pty) Ltd	450 g/L + 50 g/L	105 ml/100L	83
		pymetrozine	IRAC 9B	Cranium 500 WGD	WG	L9968	Villa Crop Protection (Pty) Ltd	500 g/kg	40 g/100L	21
		pymetrozine	IRAC 9B	Trivia 500 WDG	WG	L9969	Villa Crop Protection (Pty) Ltd	500 g/kg	40 g/100L	21
		pyrethroids	IRAC 3A	Ag-Alpha Cyper 100 SC	SC	L8473	Rolfes Agri (Pty) Ltd	100 g/L	10 ml/100L	30
		pyrethroids	IRAC 3A	Alpha-thrin 100 SC	SC	L7425	Villa Crop Protection (Pty) Ltd	100 g/L	10 ml/100L	30
		pyrethroids	IRAC 3A	Avalanche	SC	L6807	Klub M5 (Pty) Ltd	100 g/L	10 ml/100L	30
		pyrethroids	IRAC 3A	Fastac EC	EC	L4991	BASF South Africa (Pty) Ltd	100 g/L	10 ml/100L	30
		pyrethroids	IRAC 3A	Fastac SC	SC	L4992	BASF South Africa (Pty) Ltd	100 g/L	10 ml/100L	30
		pyrethroids	IRAC 3A	Ichiban 100 EW	EW	L9248	Meridian Agrochemical Company (Pty) Ltd	100 g/L	10 ml/100L	30
		pyrethroids	IRAC 3A	Polytrin Super 100 SC	SC	L7262	Villa Crop Protection (Pty) Ltd	100 g/L	10 ml/100L	30
		pyrethroids	IRAC 3A	Bulldock Beta 125 SC	SC	L7612	Bayer (Pty) Ltd	125 g/L	6 ml/100L	14
		pyrethroids	IRAC 3A	Akito	EC	L6709	Cropserve (Pty) Ltd	100 g/L	10 ml/100L	30
		pyrethroids	IRAC 3A	Avi-Sipermethrin EC	EC	L3980	Avima (Pty) Ltd	200 g/L	20 ml/100L	90
		pyrethroids	IRAC 3A	Bitrad Cypermethrin	EC	L7014	Bitrad Consulting (Pty) Ltd	200 g/L	20 ml/100L	30
		pyrethroids	IRAC 3A	Cyperin 200 EC	EC	L5321	Nulandis	200 g/L	20 ml/100L	30
		pyrethroids	IRAC 3A	Cypermethrin	EC	L7851	Arysta LifeScience South Africa (Pty) Ltd	200 g/L	20 ml/100L	30
		pyrethroids	IRAC 3A	Cypermethrin 200 EC (L4069)	EC	L4069	Efekto Care (Pty) Ltd	200 g/L	20 ml/100L	30
		pyrethroids	IRAC 3A	Cypermethrin 200 EC (L4644)	EC	L4644	Villa Crop Protection (Pty) Ltd	200 g/L	20 ml/100L	30
Stink bug		pyrethroids	IRAC 3A	FarmAg Cypermethrin	EC	L3207	FarmAg International (Pty) Ltd	200 g/L	20 ml/100L	30
		pyrethroids	IRAC 3A	Kemprin 200 EC	EC	L3145	Arysta LifeScience South Africa (Pty) Ltd	200 g/L	20 ml/100L	30
		pyrethroids	IRAC 3A	Polytrin 200 EC	EC	L5409	Villa Crop Protection (Pty) Ltd	200 g/L	20 ml/100L	30
		pyrethroids	IRAC 3A	Sipermetrien	SL	L4889	Arysta LifeScience South Africa (Pty) Ltd	200 g/L	20 ml/100L	30
		pyrethroids	IRAC 3C	Sumi-Alpha 200 EW	EW	L8821	Philagro South Africa (Pty) Ltd	200 g/L	2 ml/100L	56
		pyrethroids	IRAC 3A	Vantex 60 CS	CS	L7227	FMC Chemicals (Pty) Ltd	60 g/L	4.2 ml/100L	14 No set MRL
		pyrethroids	IRAC 3A	Anasac Zero 5 EC	EC	L8903	Wentek Chemicals (Pty) Ltd	50 g/L	10 ml/100L	82
		pyrethroids	IRAC 3A	Attacke	EC	L7669	Enviro Industries (Pty) Ltd	50 g/L	10 ml/100L	82
		pyrethroids	IRAC 3A	Judo 50 EC	EC	L7785	Villa Crop Protection (Pty) Ltd	50 g/L	10 ml/100L	82
		pyrethroids	IRAC 3A	Karate EC	EC	L3752	Syngenta South Africa (Pty) Ltd	50 g/L	10 ml/100L	7
		pyrethroids	IRAC 3A	Karate Zeon 10 CS	CS	L9023	Syngenta South Africa (Pty) Ltd	100 g/L	5 ml/100L	7
		pyrethroids	IRAC 3A	Karis 5 CS	CS	L9267	GAT Microencapsulation South Africa (Pty) Ltd	50 g/L	10 ml/100L	82
		pyrethroids	IRAC 3A	Lambda 50 EC	EC	L7787	Villa Crop Protection (Pty) Ltd	50 g/L	10 ml/100L	82
		pyrethroids	IRAC 3A	Lambda EC	EC	L8546	Arysta LifeScience South Africa (Pty) Ltd	50 g/L	10 ml/100L	82
		pyrethroids	IRAC 3A	Shamda 50 EC	EC	L10258	Sharda International (Pty) Ltd	50 g/L	10 ml/100L	82
		pyrethroids	IRAC 3A	Klartan 240 EW	EW	L5096	Adama South Africa (Pty) Ltd	240 g/L	30 ml/100L	30 No set MRL
		pyrethroids	IRAC 3A	Klaxon 240 EW	EW	L10455	Villa Crop Protection (Pty) Ltd	240 g/L	30 ml/100L	30 No set MRL
		pyrethroids	IRAC 3A	Klepton 240 EW	EW	L10454	Villa Crop Protection (Pty) Ltd	240 g/L	30 ml/100L	30 No set MRL
		pyridine azomethine derivatives	IRAC 9B	Chess	WG	L8104	Syngenta South Africa (Pty) Ltd	500 g/kg	40 g/100L	21
		neonicotinoids	IRAC 4A	Imidor 350 SC	SC	L8019	Villa Crop Protection (Pty) Ltd	350 g/L	18 ml/tree	200 No set MRL
		neonicotinoids	IRAC 4A	Mirodor 350 SC	SC	L7983	Universal Crop Protection (Pty) Ltd	350 g/L	18 ml/tree	200 No set MRL
		neonicotinoids	IRAC 4A	Kohinor 350 SC	SC	L8447	Adama South Africa (Pty) Ltd	350 g/L	18 ml/tree	112 No set MRL
Thrips		organophosphates	IRAC 1B	Dursban 750 WG	WG	L6589	Dow AgroSciences Southern Africa (Pty) Ltd	750 g/kg	64 g/100 L	83
		organophosphates	IRAC 1B	Pyrinex 250 CS	CS	L6515	Adama South Africa (Pty) Ltd	250 g/L	200 ml/100L	83
		spinosyns	IRAC 5	Delegate 250 WG	WG	L8392	Dow AgroSciences Southern Africa (Pty) Ltd	250 g/kg	10 g/100L	7
		spore concentrate	-	Real Metarhizium 69	-	L9281	Real IMP South Africa Pty Ltd	least 1 x 10 ⁹ cfu/ml	200-400 ml/ha	-

Note: Not all listed insects cause problems in macadamia orchards. Instructions: Read product label carefully before application.

Formulation notes: EC -

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.

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.

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FUNGICIDES



Disease	Active ingredient	Group code	Trade name	Form.	Reg. no.	Company	Active quantity	Dosage	PHI
Alternaria blight	chlorothalonil	FRAC M5	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	120
	cyprodinil	FRAC 9	Chorus	WG	L5383	Syngenta South Africa (Pty) Ltd	500 g/kg	380-500 g/ha	7
Alternaria late blight	azoxystrobin + difenoconazole	FRAC 11+ FRAC 3	Dimension 325 SC	SC	L10355	Cedar Fall Properties 130 (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
Alternaria leaf spot	azoxystrobin + difenoconazole	FRAC 11+ FRAC 3	Dimension 325 SC	SC	L10355	Cedar Fall Properties 130 (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
			Revert SC	SC	L10830	Sharda International (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
Anthracnose	azoxystrobin + difenoconazole	FRAC 11+ FRAC 3	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
			Dimension 325 SC	SC	L10355	Cedar Fall Properties 130 (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
	boscalid + pyraclostrobin	FRAC 7 + FRAC 11	Bellis	WG	L7817	BASF South Africa (Pty) Ltd	252 g/kg + 128 g/kg	800 g/ha	14
Blossom blight	azoxystrobin + difenoconazole	FRAC 11+ FRAC 3	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
			Dimension 325 SC	SC	L10355	Cedar Fall Properties 130 (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
	boscalid + pyraclostrobin	FRAC 7 + FRAC 11	Bellis	WG	L7817	BASF South Africa (Pty) Ltd	252 g/kg + 128 g/kg	800 g/ha	14
	chlorothalonil	FRAC M5	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	120
Botrytis	trichoderma asperellum	-	Real Trichoderma	-	L10775	Real IMP South Africa Pty Ltd	At least 1 x 10 ⁹ cfu/ml	200 to 400ml/ha	-
Botrytis blight	chlorothalonil	FRAC M5	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	120
Botrytis fruit rot	cyprodinil	FRAC 9	Chorus	WG	L5383	Syngenta South Africa (Pty) Ltd	500 g/kg	380-500 g/ha	7
Brown rot - Monilinia	chlorothalonil	FRAC M5	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	120
Downy spot	azoxystrobin + difenoconazole	FRAC 11+ FRAC 3	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
			Dimension 325 SC	SC	L10355	Cedar Fall Properties 130 (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
Eastern filbert blight	chlorothalonil	FRAC M5	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	120
Fungi	organic plant acids	--	Kannar Kanguard 940	SL	L7421	Kannar Earth Science (Pty) Ltd	19 g/L	300-450 ml/100 L	2
Husk rot	boscalid + pyraclostrobin	FRAC 7 + FRAC 11	Bellis	WG	L7817	BASF South Africa (Pty) Ltd	252 g/kg + 128 g/kg	800 g/ha	14
Husk spot	boscalid + pyraclostrobin	FRAC 7 + FRAC 11	Bellis	WG	L7817	BASF South Africa (Pty) Ltd	252 g/kg + 128 g/kg	800 g/ha	14
	difenoconazole	FRAC 3	Score	EC	L5132	Syngenta South Africa (Pty) Ltd	250 g/L	50 ml/100 L	45
Late blight	azoxystrobin + difenoconazole	FRAC 11 + FRAC 3	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
Leaf rust	azoxystrobin + difenoconazole	FRAC 11 + FRAC 3	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
			Dimension 325 SC	SC	L10355	Cedar Fall Properties 130 (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
Leaf spot	azoxystrobin + difenoconazole	FRAC 11 + FRAC 3	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
			Dimension 325 SC	SC	L10355	Cedar Fall Properties 130 (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
Panicle and shoot blight	azoxystrobin + difenoconazole	FRAC 11 + FRAC 3	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
			Dimension 325 SC	SC	L10355	Cedar Fall Properties 130 (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
Powdery mildew	azoxystrobin + difenoconazole	FRAC 11 + FRAC 3	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
			Dimension 325 SC	SC	L10355	Cedar Fall Properties 130 (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
Scab	azoxystrobin + difenoconazole	FRAC 11 + FRAC 3	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
			Dimension 325 SC	SC	L10355	Cedar Fall Properties 130 (Pty) Ltd	200 g/L + 125 g/L	500 - 1000 ml/ha	45
	chlorothalonil	FRAC M5	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	120
	propiconazole	FRAC 3	Propin 250 EC	EC	L10487	Sharda International (Pty) Ltd	250 g/L	50 ml/100 L	90
Septoria leaf spot	chlorothalonil	FRAC M5	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	120
Shot-hole	chlorothalonil	FRAC M5	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	120
Stone fruit rust	chlorothalonil	FRAC M5	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	120

Note: Not all listed diseases are problematic in macadamia orchards, although registrations against it exists. Follow label instructions.

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.

Registered product list for Macadamias in South Africa

According to registrations obtained under Act 36 of 1947

FUNGICIDES

<u>Disease</u>	<u>Active ingredient</u>	<u>Group code</u>	<u>Trade name</u>	<u>Form.</u>	<u>Reg. no.</u>	<u>Company</u>	<u>Active quantity</u>	<u>Dosage</u>	<u>PHI</u>
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SAMAC
Macadamias South Africa NPC

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

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. Usually the case for products of biological nature.

Registered product list for Macadamias in South Africa

According to registrations obtained under Act 36 of 1947



HERBICIDES

Weed	Active ingredient	Group code	Trade name	Form.	Reg. no.	Company	Active quantity
	carfentrazone-ethyl	HRAC E	Aurora 40 WG	WG	L6794	FMC Chemicals (Pty) Ltd	400 g/kg
	carfentrazone-ethyl	HRAC E	Grainwatch 400 WDG	WGD	L10719	Universal Crop Protection (Pty) Ltd	400 g/kg
	carfentrazone-ethyl	HRAC E	Torus	EC	L10709	Meridian Agrochemical Company (Pty) Ltd	250 g/L
	diquat + paraquat	HRAC D	Parody 200 SL	SL	L8398	Arysta LifeScience South Africa (Pty) Ltd	80 g/L + 120 g/L
	diquat + paraquat	HRAC D	Preeglone	WS	L3304	Syngenta South Africa (Pty) Ltd	80 g/L + 120 g/L
	diuron	HRAC C2	Develop 800 WDG	WG	L9109	Villa Crop Protection (Pty) Ltd	800 g/kg
	diuron	HRAC C2	Diurex 80 WG	WG	L8139	Adama South Africa (Pty) Ltd	800 g/kg
	diuron	HRAC C2	Diurex 800 SC	SC	L5334	Adama South Africa (Pty) Ltd	800 g/L
	diuron	HRAC C2	Diuron 800 SC (L6236)	SC	L6236	Arysta LifeScience South Africa (Pty) Ltd	800 g/L
	diuron	HRAC C2	Diuron 800 SC (L7042)	SC	L7042	Arysta LifeScience South Africa (Pty) Ltd	800 g/L
	diuron	HRAC C2	Diuron 800 WG	WG	L7040	Arysta LifeScience South Africa (Pty) Ltd	800 g/kg
	diuron	HRAC C2	Dynamo 800 SC	SC	L9619	Sharda International (Pty) Ltd	800 g/L
	diuron	HRAC C2	Extend 800 WDG	WG	L9108	Villa Crop Protection (Pty) Ltd	800 g/kg
	diuron	HRAC C2	FarmAg Diuron 800 SC	SC	L5663	FarmAg International (Pty) Ltd	800 g/L
	diuron	HRAC C2	FarmAg Diuron 800 WG	WG	L8981	FarmAg International (Pty) Ltd	800 g/L
	diuron	HRAC C2	Farmex	WG	L8749	Arysta LifeScience South Africa (Pty) Ltd	800 g/kg
	diuron	HRAC C2	Karmex DF (L7998)	WG	L7998	Arysta LifeScience South Africa (Pty) Ltd	800 g/kg
	diuron	HRAC C2	Nufarm Diuron 900 WG	WG	L5365	Nufarm Agriculture (Pty) Ltd	900 g/kg
	glufosinate-ammonium	HRAC H	Basta	SL	L4872	BASF South Africa (Pty) Ltd	200 g/L
	glufosinate-ammonium	HRAC H	Bound 200 SL	SL	L9280	Villa Crop Protection (Pty) Ltd	200 g/L
	glufosinate-ammonium	HRAC H	Brass 200 SL	SL	L9279	Universal Crop Protection (Pty) Ltd	200 g/L
	glufosinate-ammonium	HRAC H	Coller 200 SL	SL	L10606	Kwelenga SA	200 g/L
	glufosinate-ammonium	HRAC H	Glufos 200 SL	SL	L9715	Sharda International (Pty) Ltd	200 g/L
	glufosinate-ammonium	HRAC H	Knersus 200 SL	SL	L10631	Nulandis	200 g/L
	glufosinate-ammonium	HRAC H	LifeLine	SL	L10151	Cropserve (Pty) Ltd	280 g/L
	glufosinate-ammonium	HRAC H	Nirvana	SL	L9838	Meridian Agrochemical Company (Pty) Ltd	200 g/L
	glufosinate-ammonium	HRAC H	Silent	SL	L9545	Wentek Chemicals (Pty) Ltd	200 g/L
	glyphosate	HRAC G	Bounty SL	SL	L7268	Meridian Agrochemical Company (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Enviro Glyphosate 360	SL	L4767	Enviro Industries (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Erase 360 SL	SL	L6206	Nulandis	360 g/L
	glyphosate	HRAC G	Glygran 710 SG	SG	L8449	Villa Crop Protection (Pty) Ltd	710 g/kg
	glyphosate	HRAC G	Glyphogan plus	SL	L10700	Adama South Africa (Pty) Ltd	757 g/kg
	glyphosate	HRAC G	Kalach 510 SL	SL	L8311	Arysta LifeScience South Africa (Pty) Ltd	510 g/L
	glyphosate	HRAC G	Kalach 700 WSG	SG	L8312	Arysta LifeScience South Africa (Pty) Ltd	700 g/kg
Broadleaf weeds	glyphosate	HRAC G	Makhro Glyphosate 360 SL	SL	L7969	Makhro-Agro SA (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Muscle-Up 360 SL	SL	L7935	Rolfes Agri (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Panga 360 SL	SL	L7812	Villa Crop Protection (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Panga High-Load 600 SL	SL	L9735	Villa Crop Protection (Pty) Ltd	600 g/L
	glyphosate	HRAC G	Panga Turbo 450 SL	SL	L8506	Villa Crop Protection (Pty) Ltd	450 g/L
	glyphosate	HRAC G	Piranha 360 SL	SL	L8877	FarmAg International (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Piranha 510 SL	SG	L9314	FarmAg International (Pty) Ltd	680 g/kg
	glyphosate	HRAC G	Piranha Dry	SG	L9593	FarmAg International (Pty) Ltd	757 g/kg
	glyphosate	HRAC G	Rondo 757 SG	SG	L9490	DVA Chemicals South Africa (Pty) Ltd	757 g/kg
	glyphosate	HRAC G	Roundup	SL	L0407	Monsanto South Africa (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Roundup Turbo	WS	L7166	Monsanto South Africa (Pty) Ltd	450 g/L
	glyphosate	HRAC G	Scat 360 SL	SL	L5716	Villa Crop Protection (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Seismic	SL	L7016	Arysta LifeScience South Africa (Pty) Ltd	480 g/L
	glyphosate	HRAC G	Sharda Glyphosate 360 SL	SL	L8901	Sharda International (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Silvimax	SG	L9851	FarmAg International (Pty) Ltd	686 g/kg
	glyphosate	HRAC G	Silvinator	SL	L9850	FarmAg International (Pty) Ltd	510 g/L
	glyphosate	HRAC G	Slash 360 SL	SL	L7811	Villa Crop Protection (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Slash 710 SG	SG	L8450	Villa Crop Protection (Pty) Ltd	710 g/kg
	glyphosate	HRAC G	Slash High-Load 600 SL	SL	L9734	Universal Crop Protection (Pty) Ltd	600 g/L + 739 g/L
	glyphosate	HRAC G	Slash Turbo 450 SL	SL	L8505	Villa Crop Protection (Pty) Ltd	450 g/L
	glyphosate	HRAC G	Springbok 360 SL	SL	L6719	Arysta LifeScience South Africa (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Touchdown Forte HiTech	SL	L7305	Syngenta South Africa (Pty) Ltd	500 g/L
	glyphosate	HRAC G	Tumbleweed	SL	L4781	Enviro Industries (Pty) Ltd	240 g/L
	glyphosate + ammonium salt	HRAC G9	Lynch 360 SL	SL	L8128	Crop Asure (Pty) Ltd	360 g/L
	glyphosate + ammonium salt	HRAC G9	Lynch 710 SG	SG	L8670	Crop Asure (Pty) Ltd	710 g/kg + 780 g/kg
	glyphosate + potassium salt	HRAC G	Lynch Turbo 450 SL	SL	L8754	Crop Asure (Pty) Ltd	450 g/L + 555 g/L
	indaziflam	HRAC L29	Alion	SL	L10791	Bayer (Pty) Ltd	500 g/L
	paraquat	HRAC D	Gramoxone	SL	L1174	Syngenta South Africa (Pty) Ltd	200 g/L
	paraquat	HRAC D	Scorcher	SL	L9085	Meridian Agrochemical Company (Pty) Ltd	200 g/L
	paraquat	HRAC D	Sharda Paraquat 200 SL	SL	L9432	Sharda International (Pty) Ltd	200 g/L
	trifluralin	HRAC K1	Nufarm Trifluralin 480 EC	EC	L5414	Nufarm Agriculture (Pty) Ltd	480 g/L
	trifluralin	HRAC K1	Rifle 480 EC	EC	L8137	Villa Crop Protection (Pty) Ltd	480 g/L
	trifluralin	HRAC K1	Trifluralin 480 EC	EC	L4555	Villa Crop Protection (Pty) Ltd	480 g/L
	trifluralin	HRAC K1	Triflurex 480 EC	EC	L5350	Adama South Africa (Pty) Ltd	480 g/L

Registered product list for Macadamias in South Africa

According to registrations obtained under Act 36 of 1947



HERBICIDES

Weed	Active ingredient	Group code	Trade name	Form.	Reg. no.	Company	Active quantity
	carfentrazone-ethyl	HRAC E	Grainwatch 400 WDG	WGD	L10719	Universal Crop Protection (Pty) Ltd	400 g/kg
	cycloxydim	HRAC A	Focus Ultra	EC	L4319	BASF South Africa (Pty) Ltd	100 g/L
	diquat + paraquat	HRAC D	Parody 200 SL	SL	L8398	Arysta LifeScience South Africa (Pty) Ltd	80 g/L + 120 g/L
	diquat + paraquat	HRAC D	Preeglone	WS	L3304	Syngenta South Africa (Pty) Ltd	80 g/L + 120 g/L
	diuron	HRAC C2	Develop 800 WDG	WG	L9109	Villa Crop Protection (Pty) Ltd	800 g/kg
	diuron	HRAC C2	Diurex 80 WG	WG	L8139	Adama South Africa (Pty) Ltd	800 g/kg
	diuron	HRAC C2	Diurex 800 SC	SC	L5334	Adama South Africa (Pty) Ltd	800 g/L
	diuron	HRAC C2	Diuron 800 SC (L6236)	SC	L6236	Arysta LifeScience South Africa (Pty) Ltd	800 g/L
	diuron	HRAC C2	Diuron 800 SC (L7042)	SC	L7042	Arysta LifeScience South Africa (Pty) Ltd	800 g/L
	diuron	HRAC C2	Diuron 800 WG	WG	L7040	Arysta LifeScience South Africa (Pty) Ltd	800 g/kg
	diuron	HRAC C2	Dynamo 800 SC	SC	L9619	Sharda International (Pty) Ltd	800 g/L
	diuron	HRAC C2	Extend 800 WDG	WG	L9108	Villa Crop Protection (Pty) Ltd	800 g/kg
	diuron	HRAC C2	FarmAg Diuron 800 SC	SC	L5663	FarmAg International (Pty) Ltd	800 g/L
	diuron	HRAC C2	FarmAg Diuron 800 WG	WG	L8981	FarmAg International (Pty) Ltd	800 g/L
	diuron	HRAC C2	Farmex	WG	L8749	Arysta LifeScience South Africa (Pty) Ltd	800 g/kg
	diuron	HRAC C2	Karmex DF (L7998)	WG	L7998	Arysta LifeScience South Africa (Pty) Ltd	800 g/kg
	diuron	HRAC C2	Nufarm Diuron 900 WG	WG	L5365	Nufarm Agriculture (Pty) Ltd	900 g/kg
	fluazifop-P-butyl	HRAC A	Fusilade Forte	EC	L7304	Syngenta South Africa (Pty) Ltd	150 g/L
	glufosinate-ammonium	HRAC H	Basta	SL	L4872	BASF South Africa (Pty) Ltd	200 g/L
	glufosinate-ammonium	HRAC H	Bound 200 SL	SL	L9280	Villa Crop Protection (Pty) Ltd	200 g/L
	glufosinate-ammonium	HRAC H	Brass 200 SL	SL	L9279	Universal Crop Protection (Pty) Ltd	200 g/L
	glufosinate-ammonium	HRAC H	Coller 200 SL	SL	L10606	Kwelenga SA	200 g/L
	glufosinate-ammonium	HRAC H	Glufos 200 SL	SL	L9715	Sharda International (Pty) Ltd	200 g/L
	glufosinate-ammonium	HRAC H	Knersus 200 SL	SL	L10631	Nulandis	200 g/L
	glufosinate-ammonium	HRAC H	LifeLine	SL	L10151	Cropserve (Pty) Ltd	280 g/L
	glufosinate-ammonium	HRAC H	Nirvana	SL	L9838	Meridian Agrochemical Company (Pty) Ltd	200 g/L
	glufosinate-ammonium	HRAC H	Silent	SL	L9545	Wentek Chemicals (Pty) Ltd	200 g/L
	glyphosate	HRAC G	Bounty SL	SL	L7268	Meridian Agrochemical Company (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Enviro Glyphosate 360	SL	L4767	Enviro Industries (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Erase 360 SL	SL	L6206	Nulandis	360 g/L
	glyphosate	HRAC G	Glygran 710 SG	SG	L8449	Villa Crop Protection (Pty) Ltd	710 g/kg
	glyphosate	HRAC G	Glynox 540 SL	SL	L10937	Nulandis	662 g/l
	glyphosate	HRAC G	Glyphogan plus	SL	L10700	Adama South Africa (Pty) Ltd	757 g/kg
	glyphosate	HRAC G	Kalach 510 SL	SL	L8311	Arysta LifeScience South Africa (Pty) Ltd	510 g/L
Grass weeds	glyphosate	HRAC G	Kalach 700 WSG	SG	L8312	Arysta LifeScience South Africa (Pty) Ltd	700 g/kg
	glyphosate	HRAC G	Makhro Glyphosate 360 SL	SL	L7969	Makhro-Agro SA (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Muscle-Up 360 SL	SL	L7935	Rolfes Agri (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Panga 360 SL	SL	L7812	Villa Crop Protection (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Panga High-Load 600 SL	SL	L9735	Villa Crop Protection (Pty) Ltd	600 g/L
	glyphosate	HRAC G	Panga Turbo 450 SL	SL	L8506	Villa Crop Protection (Pty) Ltd	450 g/L
	glyphosate	HRAC G	Piranha 360 SL	SL	L8877	FarmAg International (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Piranha 510 SL	SG	L9314	FarmAg International (Pty) Ltd	680 g/kg
	glyphosate	HRAC G	Piranha Dry	SG	L9593	FarmAg International (Pty) Ltd	757 g/kg
	glyphosate	HRAC G	Rondo 757 SG	SG	L9490	DVA Chemicals South Africa (Pty) Ltd	757 g/kg
	glyphosate	HRAC G	Roundup	SL	L0407	Monsanto South Africa (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Roundup Turbo	WS	L7166	Monsanto South Africa (Pty) Ltd	450 g/L
	glyphosate	HRAC G	Scat 360 SL	SL	L5716	Villa Crop Protection (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Seismic	SL	L7016	Arysta LifeScience South Africa (Pty) Ltd	480 g/L
	glyphosate	HRAC G	Sharda Glyphosate 360 SL	SL	L8901	Sharda International (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Silvimax	SG	L9851	FarmAg International (Pty) Ltd	686 g/kg
	glyphosate	HRAC G	Silvinator	SL	L9850	FarmAg International (Pty) Ltd	510 g/L
	glyphosate	HRAC G	Slash 360 SL	SL	L7811	Villa Crop Protection (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Slash 710 SG	SG	L8450	Villa Crop Protection (Pty) Ltd	710 g/kg
	glyphosate	HRAC G	Slash High-Load 600 SL	SL	L9734	Villa Crop Protection (Pty) Ltd	600 g/L + 739 g/L
	glyphosate	HRAC G	Slash Turbo 450 SL	SL	L8505	Villa Crop Protection (Pty) Ltd	450 g/L
	glyphosate	HRAC G	Springbok 360 SL	SL	L6719	Arysta LifeScience South Africa (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Touchdown Forte HiTech	SL	L7305	Syngenta South Africa (Pty) Ltd	500 g/L
	glyphosate	HRAC G	Tumbleweed	SL	L4781	Enviro Industries (Pty) Ltd	240 g/L
	glyphosate + ammonium salt	HRAC G9	Lynch 360 SL	SL	L8128	Crop Assure (Pty) Ltd	360 g/L
	glyphosate + ammonium salt	HRAC G9	Lynch 710 SG	SG	L8670	Crop Assure (Pty) Ltd	710 g/kg + 780 g/kg
	glyphosate + potassium salt	HRAC G	Lynch Turbo 450 SL	SL	L8754	Crop Assure (Pty) Ltd	450 g/L + 555 g/L
	indaziflam	HRAC L29	Alion	SL	L10791	Bayer (Pty) Ltd	500 g/L
	paraquat	HRAC D	Gramoxone	SL	L1174	Syngenta South Africa (Pty) Ltd	200 g/L
	paraquat	HRAC D	Scorcher	SL	L9085	Meridian Agrochemical Company (Pty) Ltd	200 g/L
	paraquat	HRAC D	Sharda Paraquat 200 SL	SL	L9432	Sharda International (Pty) Ltd	200 g/L
	trifluralin	HRAC K1	Nufarm Trifluralin 480 EC	EC	L5414	Nufarm Agriculture (Pty) Ltd	480 g/L
	trifluralin	HRAC K1	Rifle 480 EC	EC	L8137	Villa Crop Protection (Pty) Ltd	480 g/L
	trifluralin	HRAC K1	Trifluralin 480 EC	EC	L4555	Villa Crop Protection (Pty) Ltd	480 g/L
	trifluralin	HRAC K1	Triflurex 480 EC	EC	L5350	Adama South Africa (Pty) Ltd	480 g/L

Registered product list for Macadamias in South Africa

According to registrations obtained under Act 36 of 1947



HERBICIDES

Weed	Active ingredient	Group code	Trade name	Form.	Reg. no.	Company	Active quantity
Noxious weeds	glyphosate	HRAC G	Bounty SL	SL	L7268	Meridian Agrochemical Company (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Glygran 710 SG	SG	L8449	Villa Crop Protection (Pty) Ltd	710 g/kg
	glyphosate	HRAC G9	Glynox 540 SL	SL	L10937	Nulandis	662 g/l
	glyphosate	HRAC G	Glyphogan plus	SL	L10700	Adama South Africa (Pty) Ltd	757 g/kg
	glyphosate	HRAC G	Kalach 510 SL	SL	L8311	Arysta LifeScience South Africa (Pty) Ltd	510 g/L
	glyphosate	HRAC G	Makhro Glyphosate 360 SL	SL	L7969	Makhro-Agro SA (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Panga 360 SL	SL	L7812	Villa Crop Protection (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Panga Turbo 450 SL	SL	L8506	Villa Crop Protection (Pty) Ltd	450 g/L
	glyphosate	HRAC G	Rondo 757 SG	SG	L9490	DVA Chemicals South Africa (Pty) Ltd	757 g/kg
	glyphosate	HRAC G	Roundup	SL	L0407	Monsanto South Africa (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Roundup Turbo	WS	L7166	Monsanto South Africa (Pty) Ltd	450 g/L
	glyphosate	HRAC G	Scat 360 SL	SL	L5716	Villa Crop Protection (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Sharda Glyphosate 360 SL	SL	L8901	Sharda International (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Slash Turbo 450 SL	SL	L8505	Villa Crop Protection (Pty) Ltd	450 g/L
	glyphosate	HRAC G	Touchdown Forte HiTech	SL	L7305	Syngenta South Africa (Pty) Ltd	500 g/L
	glyphosate	HRAC G	TumbleWeed	SL	L4781	Enviro Industries (Pty) Ltd	240 g/L
Sedges	diquat + paraquat	HRAC D	Preeglone	WS	L3304	Syngenta South Africa (Pty) Ltd	80 g/L + 120 g/L
	diuron	HRAC C2	Develop 800 WDG	WG	L9109	Villa Crop Protection (Pty) Ltd	800 g/kg
	diuron	HRAC C2	Dynamo 800 SC	SC	L9619	Sharda International (Pty) Ltd	800 g/L
	diuron	HRAC C2	Extend 800 WDG	WG	L9108	Villa Crop Protection (Pty) Ltd	800 g/kg
	diuron	HRAC C2	FarmAg Diuron 800 WG	WG	L8981	FarmAg International (Pty) Ltd	800 g/L
	glufosinate-ammonium	HRAC H	Basta	SL	L4872	BASF South Africa (Pty) Ltd	200 g/L
	glufosinate-ammonium	HRAC H	Coller 200 SL	SL	L10606	Kwelenga SA	200 g/L
	glufosinate-ammonium	HRAC H	Glufos 200 SL	SL	L9715	Sharda International (Pty) Ltd	200 g/L
	glufosinate-ammonium	HRAC H	Knorsus 200 SL	SL	L10631	Nulandis	200 g/L
	glufosinate-ammonium	HRAC H	Lifeline	SL	L10151	Cropserve (Pty) Ltd	280 g/L
	glufosinate-ammonium	HRAC H	Nirvana	SL	L9838	Meridian Agrochemical Company (Pty) Ltd	200 g/L
	glufosinate-ammonium	HRAC H	Silent	SL	L9545	Wentek Chemicals (Pty) Ltd	200 g/L
	glyphosate	HRAC G	Bounty SL	SL	L7268	Meridian Agrochemical Company (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Glygran 710 SG	SG	L8449	Villa Crop Protection (Pty) Ltd	710 g/kg
	glyphosate	HRAC G9	Glynox 540 SL	SL	L10937	Nulandis	662 g/l
	glyphosate	HRAC G	Glyphogan plus	SL	L10700	Adama South Africa (Pty) Ltd	757 g/kg
	glyphosate	HRAC G	Kalach 510 SL	SL	L8311	Arysta LifeScience South Africa (Pty) Ltd	510 g/L
	glyphosate	HRAC G	Makhro Glyphosate 360 SL	SL	L7969	Makhro-Agro SA (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Muscle-Up 360 SL	SL	L7935	Rolfes Agri (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Panga 360 SL	SL	L7812	Villa Crop Protection (Pty) Ltd	360 g/L
	glyphosate	HRAC G	Panga Turbo 450 SL	SL	L8506	Villa Crop Protection (Pty) Ltd	450 g/L
	glyphosate	HRAC G	Rondo 757 SG	SG	L9490	DVA Chemicals South Africa (Pty) Ltd	757 g/kg
	glyphosate	HRAC G	Roundup	SL	L0407	Monsanto South Africa (Pty) Ltd	360 g/L
glyphosate	HRAC G	Roundup Turbo	WS	L7166	Monsanto South Africa (Pty) Ltd	450 g/L	
glyphosate	HRAC G	Scat 360 SL	SL	L5716	Villa Crop Protection (Pty) Ltd	360 g/L	
glyphosate	HRAC G	Sharda Glyphosate 360 SL	SL	L8901	Sharda International (Pty) Ltd	360 g/L	
glyphosate	HRAC G	Silvimax	SG	L9851	FarmAg International (Pty) Ltd	686 g/kg	
glyphosate	HRAC G	Silvinator	SL	L9850	FarmAg International (Pty) Ltd	510 g/L	
glyphosate	HRAC G	Slash 360 SL	SL	L7811	Villa Crop Protection (Pty) Ltd	360 g/L	
glyphosate	HRAC G	Slash 710 SG	SG	L8450	Villa Crop Protection (Pty) Ltd	710 g/kg	
glyphosate	HRAC G	Slash Turbo 450 SL	SL	L8505	Villa Crop Protection (Pty) Ltd	450 g/L	
glyphosate	HRAC G	Touchdown Forte HiTech	SL	L7305	Syngenta South Africa (Pty) Ltd	500 g/L	
glyphosate	HRAC G	TumbleWeed	SL	L4781	Enviro Industries (Pty) Ltd	240 g/L	
paraquat	HRAC D	Gramoxone	SL	L1174	Syngenta South Africa (Pty) Ltd	200 g/L	
paraquat	HRAC D	Scorcher	SL	L9085	Meridian Agrochemical Company (Pty) Ltd	200 g/L	

Dosage & instructions: Read product label carefully before application.

Formulation notes: WS - Water soluble solution, EC - Emulsifiable concentrate, WG - Water-dispersible granule, WGD - Water dispersible granule, SL - Soluble concentrate, SC - Suspension Concentrate, SG - Water soluble granule.

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.

Registered product list for Macadamias in South Africa

According to registrations obtained under Act 36 of 1947

ADJUVANTS, PLANT GROWTH REGULATORS & NEMATICIDE



Group	Reason for application	Active ingredient	Trade name	Form.	Reg. no.	Company	Active quantity	Dosage
	Foliar nutrients	polyether-polymethylsiloxane-copolymer	Break-Thru	EC	L6764	Evonik Degussa Africa (Pty) Ltd Co	1000 g/L	See label
	Foliar nutrients	polyether-polymethylsiloxane-copolymer	Charge	EC	L9100	Villa Crop Protection (Pty) Ltd	1000 g/L	See label
	Foliar nutrients	polyether-polymethylsiloxane-copolymer	Supawett	EC	L7202	Rolfes Agri (Pty) Ltd	1000 g/L	See label
	Foliar nutrients	polyether-polymethylsiloxane-copolymer	Techniwet Super	EC	L9239	Farmkem Speciality Products (Pty) Ltd	1000 g/L	See label
	Foliar nutrients	terpenic polymer	Sprayfilm 10	EC	L7120	Arysta LifeScience South Africa (Pty) Ltd	902.4 g/L	50 ml/100L
	Fungi	non-ionic surfactant + orange oil	Wetcit Duo	EC	L10448	Oro Agri SA (Pty) Ltd	50 g/L + 68 g/L	See label
	Fungi	non-ionic surfactant + orange oil	Orosorb Duo	EC	L10462	Oro Agri SA (Pty) Ltd	50 g/L + 68 g/L	See label
	Fungi	polyether-polymethylsiloxane-copolymer	Break-Thru	EC	L6764	Evonik Degussa Africa (Pty) Ltd Co	1000 g/L	See label
	Fungi	polyether-polymethylsiloxane-copolymer	Charge	EC	L9100	Villa Crop Protection (Pty) Ltd	1000 g/L	See label
	Fungi	polyether-polymethylsiloxane-copolymer	Supawett	EC	L7202	Rolfes Agri (Pty) Ltd	1000 g/L	See label
	Fungi	polyether-polymethylsiloxane-copolymer	Techniwet Super	EC	L9239	Farmkem Speciality Products (Pty) Ltd	1000 g/L	See label
	Fungi	terpenic polymer	Sprayfilm 10	EC	L7120	Arysta LifeScience South Africa (Pty) Ltd	902.4 g/L	50 ml/100L
	Fungi	vegetable oils, polyoxy ethylene fatty acid ester	Interlock	EC	L10254	Villa Crop Protection (Pty) Ltd	880 g/L	See label
	Insects	non-ionic surfactant + orange oil	Wetcit Duo	EC	L10448	Oro Agri SA (Pty) Ltd	50 g/L + 68 g/L	See label
	Insects	non-ionic surfactant + orange oil	Orosorb Duo	EC	L10462	Oro Agri SA (Pty) Ltd	50 g/L + 68 g/L	See label
	Insects	polyether-polymethylsiloxane-copolymer	Break-Thru	EC	L6764	Evonik Degussa Africa (Pty) Ltd Co	1000 g/L	See label
adjuvants	Insects	polyether-polymethylsiloxane-copolymer	Charge	EC	L9100	Villa Crop Protection (Pty) Ltd	1000 g/L	See label
	Insects	polyether-polymethylsiloxane-copolymer	Supawett	EC	L7202	Rolfes Agri (Pty) Ltd	1000 g/L	See label
	Insects	polyether-polymethylsiloxane-copolymer	Techniwet Super	EC	L9239	Farmkem Speciality Products (Pty) Ltd	1000 g/L	See label
	Insects	terpenic polymer	Sprayfilm 10	EC	L7120	Arysta LifeScience South Africa (Pty) Ltd	902.4 g/L	50 ml/100L
	Insects	vegetable oils, polyoxy ethylene fatty acid ester	Interlock	EC	L10254	Villa Crop Protection (Pty) Ltd	880 g/L	See label
	Mites	non-ionic surfactant + orange oil	Wetcit Duo	EC	L10448	Oro Agri SA (Pty) Ltd	50 g/L + 68 g/L	See label
	Mites	non-ionic surfactant + orange oil	Orosorb Duo	EC	L10462	Oro Agri SA (Pty) Ltd	50 g/L + 68 g/L	See label
	Weeds	ammonium sulphate	Velocity Super	EC	L9603	Villa Crop Protection (Pty) Ltd	500 g/L	See label
	Weeds	ammonium sulphate	AMS-Super	EC	L9758	Villa Crop Protection (Pty) Ltd	500 g/L	See label
	Weeds	ammonium sulphate	Class Act NG	EC	L10477	Villa Crop Protection (Pty) Ltd	480 g/L	See label
	Weeds	ammonium sulphate	Velocity Drymax	WG	L9454	Villa Crop Protection (Pty) Ltd	1000 g/kg	See label
	Weeds	ammonium sulphate	AMS-Granule	WG	L9610	Villa Crop Protection (Pty) Ltd	1000 g/kg	See label
	Weeds	isotridecanol	Villa 51	EC	L8050	Villa Crop Protection (Pty) Ltd	918 g/L	See label
	Weeds	isotridecanol	Wen51	EC	L8315	Villa Crop Protection (Pty) Ltd	918 g/L	See label
	Weeds	nitrogen solution	Benefit Plus	EC	L8538	Villa Crop Protection (Pty) Ltd	929 g/L	See label
	Weeds	nitrogen solution / non-ionic surfactant	Summit Super	EC	L8539	Villa Crop Protection (Pty) Ltd	929 g/L	See label
	Weeds	terpenic polymer	Sprayfilm 10	EC	L7120	Arysta LifeScience South Africa (Pty) Ltd	902.4 g/L	50 ml/100L
	Weeds	vegetable oils, polyoxy ethylene fatty acid ester	Interlock	EC	L10254	Villa Crop Protection (Pty) Ltd	880 g/L	See label

Registered product list for Macadamias in South Africa

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ADJUVANTS, PLANT GROWTH REGULATORS & NEMATICIDE

Group	Reason for application	Active ingredient	Trade name	Form.	Reg. no.	Company	Active quantity	Dosage
growth regulators	Nut abscission	ethephon	Effon 480 SL	SL	L5536	Nulandis	480 g/L	156-208 ml/100L
	Nut abscission	ethephon	Ethapon 480 SL	SL	L5023	Nulandis	480 g/L	156-208 ml/100L
	Nut abscission	ethephon	Ethephon 480 SL (L7511)	SL	L7511	Universal Crop Protection (Pty) Ltd	480 g/L	208 ml/100L + 0.1 % Villa 51
	Nut abscission	ethephon	Ethephon 480 SL (L4776)	SL	L4776	Villa Crop Protection (Pty) Ltd	480 g/L	208 ml/100L
	Vegetative growth control	paclobutrazol	Avocet	SC	L7368	Villa Crop Protection (Pty) Ltd	250 g/L	See label
	Vegetative growth control	paclobutrazol	Cultar	SC	L3693	Syngenta South Africa (Pty) Ltd	250 g/L	20 ml/tree
nematicide	Nematodes	furfural	Crop Guard	EC	L6864	Illovo Sugar Ltd	900 g/L	5.0 ml/m ²

Dosage & instructions: Read product label carefully before application.

Formulation notes: EC - Emulsifiable concentrate, SL - Soluble concentrate, SC - Suspension concentrate.

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