

## PECAN NUTS: Information on products registered under Act 36 of 1947 for specific use in South Africa.



The information listed below is provided as a guideline to growers.  
The provider cannot accept any liability for its accuracy and users who rely on this information do so at their own risk.

### FUNGICIDES

Target	FRAC Group	Active ingredient	Trade name	Form.	Reg. no.	Company	Active quantity	Dosage	Application type	PHI	Notes
Alternaria	M5	chlorothalonil	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	Aerial; Foliar	120	Suppression only. Apply at beginning of the flowering period and at full bloom. Do additional applications as required on 14 - 28 days intervals. Maximum 5 applications per season. Do not apply with oils, pesticides, surfactants of fertilizers.
Alternaria	9	cyprodinil	Chorus	WG	L5383	Syngenta South Africa (Pty) Ltd	500 g/kg	380-500 g/ha	Aerial; Foliar	7	Do the first application during early bloom, repeat every 14 days if conditions remain favourable for disease development. Ensure good coverage. No more than 2 aerial applications. Do not exceed 1400 g/ha per season.
Alternaria	9+12	cyprodinil + fludioxonil	Switch	WG	L5926	Syngenta South Africa (Pty) Ltd	375 g/L + 250 g/L	800-950 g/ha	Foliar	7	Ensure good coverage during early bloom and repeat at 14 day intervals if conditions remain favourable. No more than 2 sequential applications. Maximum 4 applications per season.
Anthraco-nose	11	azoxystrobin	Ortiva	SC	L5968	Syngenta South Africa (Pty) Ltd	250 g/L	480-880 ml/ha	Aerial; Foliar	45	Apply prior to disease development. Apply at 7-21 day intervals. No more than 2 sequential applications. Maximum 4 applications per season. An adjuvant may be added at the registered rate. Optimum pH = 5.0-5.5.
Anthraco-nose	11+3	azoxystrobin + difenoconazole	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500-1000 ml/ha	Aerial; Foliar	45	Apply as part of a protectant programme before disease occurs with no more than 2 consecutive sprays 10-14 days apart. Maximum 4 sprays per season. Do not use with an adjuvant. Spray volumes for aerial sprays: 30-40 L water/ha.
Anthraco-nose	7+11	boscalid + pyraclostrobin	Bellis	WG	L7817	BASF South Africa (Pty) Ltd	252 g/kg + 128 g/kg	800 g/ha	Foliar	14	Apply in a preventative program, commencing at flower tassel emergence, followed with a second application two weeks later. Apply 1200-1500 L water/ha. Maximum 2 sequential and 3 total applications per season.
Blossom blight	11+3	azoxystrobin + difenoconazole	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500-1000 ml/ha	Aerial; Foliar	45	Apply as part of a protectant programme before disease occurs with no more than 2 consecutive sprays 10-14 days apart. Maximum 4 sprays per season. Do not use with an adjuvant. Spray volumes for aerial sprays: 30-40 L water/ha.
Blossom blight	7+11	boscalid + pyraclostrobin	Bellis	WG	L7817	BASF South Africa (Pty) Ltd	252 g/kg + 128 g/kg	800 g/ha	Foliar	14	Apply in a preventative program, commencing at flower tassel emergence, followed with a second application two weeks later. Apply 1200-1500 L water/ha. Maximum 2 sequential and 3 total applications per season.
Blossom blight	M5	chlorothalonil	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	Aerial; Foliar	120	Suppression only. Apply at beginning of the flowering period and at full bloom. Do additional applications as required on 14 - 28 days intervals. Maximum 5 applications per season. Do not apply with oils, pesticides, surfactants of fertilizers.
Botrytis	M5	chlorothalonil	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	Aerial; Foliar	120	Suppression only. Apply at beginning of the flowering period and at full bloom. Do additional applications as required on 14 - 28 days intervals. Maximum 5 applications per season. Do not apply with oils, pesticides, surfactants of fertilizers.
Botrytis	9+12	cyprodinil + fludioxonil	Switch	WG	L5926	Syngenta South Africa (Pty) Ltd	375 g/L + 250 g/L	800-950 g/ha	Foliar	7	Ensure good coverage during early bloom and repeat at 14 day intervals if conditions remain favourable. No more than 2 sequential applications. Maximum 4 applications per season.

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Target	FRAC Group	Active ingredient	Trade name	Form.	Reg. no.	Company	Active quantity	Dosage	Application type	PHI	Notes
Botrytis fruit rot	9	cyprodinil	Chorus	WG	L5383	Syngenta South Africa (Pty) Ltd	500 g/kg	380-500 g/ha	Aerial; Foliar	7	Do the first application during early bloom, repeat every 14 days if conditions remain favourable for disease development. Ensure good coverage. No more than 2 aerial applications. Do not exceed 1400 g/ha per season.
Brown rot - Monilinia	M5	chlorothalonil	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	Aerial; Foliar	120	Suppression only. Apply at beginning of the flowering period and at full bloom. Do additional applications as required on 14 - 28 days intervals. Maximum 5 applications per season. Do not apply with oils, pesticides, surfactants of fertilizers.
Downy spot	11+3	azoxystrobin + difenoconazole	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500-1000 ml/ha	Aerial; Foliar	45	Apply as part of a protectant programme before disease occurs with no more than 2 consecutive sprays 10-14 days apart. Maximum 4 sprays per season. Do not use with an adjuvant. Spray volumes for aerial sprays: 30-40 L water/ha.
Eastern Filbert blight	M5	chlorothalonil	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	Aerial; Foliar	120	Suppression only. Apply at beginning of the flowering period and at full bloom. Do additional applications as required on 14 - 28 days intervals. Maximum 5 applications per season. Do not apply with oils, pesticides, surfactants of fertilizers.
Fungi	-	organic plant acids	Kannar Kanguard 940	SL	L7421	Kannar Earth Science (Pty) Ltd	19 g/L	300-450 ml/100 L water	Foliar	2	Full cover application. Add an adjuvant. Repeat every 5 days. Optimum pH = 5.5-6.5.
Husk rot	7+11	boscalid + pyraclostrobin	Bellis	WG	L7817	BASF South Africa (Pty) Ltd	252 g/kg + 128 g/kg	800 g/ha	Foliar	14	Apply in a preventative program, commencing at flower tassel emergence, followed with a second application two weeks later. Apply 1200-1500 L water/ha. Maximum 2 sequential and 3 total applications per season.
Husk spot	7+11	boscalid + pyraclostrobin	Bellis	WG	L7817	BASF South Africa (Pty) Ltd	252 g/kg + 128 g/kg	800 g/ha	Foliar	14	Apply in a preventative program, commencing at flower tassel emergence, followed with a second application two weeks later. Apply 1200-1500 L water/ha. Maximum 2 sequential and 3 total applications per season.
Husk spot	3	difenoconazole	Score	EC	L5132	Syngenta South Africa (Pty) Ltd	250 g/L	50 ml/100 L water	Ground	45	Apply at nut set with an adjuvant. Maximum 2 applications per season.
Late blight	11+3	azoxystrobin + difenoconazole	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500-1000 ml/ha	Aerial; Foliar	45	Apply as part of a protectant programme before disease occurs with no more than 2 consecutive sprays 10-14 days apart. Maximum 4 sprays per season. Do not use with an adjuvant. Spray volumes for aerial sprays: 30-40 L water/ha.
Leaf spot	11+3	azoxystrobin + difenoconazole	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500-1000 ml/ha	Aerial; Foliar	45	Apply as part of a protectant programme before disease occurs with no more than 2 consecutive sprays 10-14 days apart. Maximum 4 sprays per season. Do not use with an adjuvant. Spray volumes for aerial sprays: 30-40 L water/ha.
Panicle and shoot blight	11+3	azoxystrobin + difenoconazole	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500-1000 ml/ha	Aerial; Foliar	45	Apply as part of a protectant programme before disease occurs with no more than 2 consecutive sprays 10-14 days apart. Maximum 4 sprays per season. Do not use with an adjuvant. Spray volumes for aerial sprays: 30-40 L water/ha.
Powdery mildew	11+3	azoxystrobin + difenoconazole	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500-1000 ml/ha	Aerial; Foliar	45	Apply as part of a protectant programme before disease occurs with no more than 2 consecutive sprays 10-14 days apart. Maximum 4 sprays per season. Do not use with an adjuvant. Spray volumes for aerial sprays: 30-40 L water/ha.
Rust - Leaf rust	11+3	azoxystrobin + difenoconazole	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500-1000 ml/ha	Aerial; Foliar	45	Apply as part of a protectant programme before disease occurs with no more than 2 consecutive sprays 10-14 days apart. Maximum 4 sprays per season. Do not use with an adjuvant. Spray volumes for aerial sprays: 30-40 L water/ha.

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Target	FRAC Group	Active ingredient	Trade name	Form.	Reg. no.	Company	Active quantity	Dosage	Application type	PHI	Notes
Scab	11	azoxystrobin	Ortiva	SC	L5968	Syngenta South Africa (Pty) Ltd	250 g/L	480-880 ml/ha	Aerial; Foliar	45	Apply prior to disease development. Apply at 7-21 day intervals. No more than 2 sequential applications. Maximum 4 applications per season. An adjuvant may be added at the registered rate. Optimum pH = 5.0-5.5.
Scab	11+3	azoxystrobin + difenoconazole	Amistar Top	SC	L7897	Syngenta South Africa (Pty) Ltd	200 g/L + 125 g/L	500-1000 ml/ha	Aerial; Foliar	45	Apply as part of a protectant programme before disease occurs with no more than 2 consecutive sprays 10-14 days apart. Maximum 4 sprays per season. Do not use with an adjuvant. Spray volumes for aerial sprays: 30-40 L water/ha.
Scab	M5	chlorothalonil	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	Aerial; Foliar	120	Suppression only. Apply at beginning of the flowering period and at full bloom. Do additional applications as required on 14 - 28 days intervals. Maximum 5 applications per season. Do not apply with oils, pesticides, surfactants of fertilizers.
Scab	30	fentin hydroxide	Ag-Tin	SC	L9493	Rolfes Agri (Previously known as Ag-Chem Africa (Pty) Ltd)	480 g/L	50 ml/100 L water	Foliar	-	Active is banned in Europe. Only for local use. *Do not spray after the shucks have opened. Do the first application at green tip stage (early October). Repeat 4 times with 3 week intervals, with the second of these 4 applications being applied at the first browning of tips of small nuts.
Scab	3	propiconazole	Bumper 250 EC	EC	L6034	Adama South Africa (Pty) Ltd	250 g/L	50 ml/100 L water	Foliar	90	Apply 1000-2000 L spray mixture/ha. Refer to the label for detailed instructions. Spray intervals: when leaves unfold; 10-; 21- (+ contact fungicide); 28- (+ contact fungicide); 28 (+ contact fungicide) days later depending on conditions.
Scab	3	propiconazole	Makhrozele 250 EC	EC	L7974	Makhro-Agro SA (Pty) Ltd	250 g/L	50 ml/100 L water	Foliar	90	Apply 1000-2000 L spray mixture/ha. Refer to the label for detailed instructions. Spray intervals: when leaves unfold; 10-; 21- (+ contact fungicide); 28- (+ contact fungicide); 28 (+ contact fungicide) days later depending on conditions.
Scab	3	propiconazole	Principle 250 EC	EC	L10533	ICA International Chemicals (Pty) Ltd	250 g/l	50 ml / 100 l water	Aerial; Foliar	90	Apply the first application when the leaves unfold and the second application 10 days later. Follow instructions on the label. The application with a suitable registered contact fungicide from a different FRAC group with the 3 <sup>rd</sup> , 4 <sup>th</sup> and 5 <sup>th</sup> application, will be beneficial for disease control.
Scab	3	propiconazole	Propiconazole 250	EC	L7306	Universal Crop Protection (Pty) Ltd.	250 g/l	50 ml / 100 l water	Aerial; Foliar	90	Apply the first application when the leaves unfold and the second application 10 days later. Follow instructions on the label. The application with a suitable registered contact fungicide from a different FRAC group with the 3 <sup>rd</sup> , 4 <sup>th</sup> and 5 <sup>th</sup> application, will be beneficial for disease control.
Scab	3	propiconazole	Propiconazole 250EC	EC	L7306	Villa Crop Protection (Pty) Ltd	250 g/L	50 ml/100 L water	Foliar	90	Apply 1000-2000 L spray mixture/ha. Refer to the label for detailed instructions. Spray intervals: when leaves unfold; 10-; 21- (+ contact fungicide); 28- (+ contact fungicide); 28 (+ contact fungicide) days later depending on conditions.
Scab	3	propiconazole	Propizole 250 EC	EC	L7561	Villa Crop Protection (Pty) Ltd	250 g/L	50 ml/100 L water	Foliar	90	Apply 1000-2000 L spray mixture/ha. Refer to the label for detailed instructions. Spray intervals: when leaves unfold; 10-; 21- (+ contact fungicide); 28- (+ contact fungicide); 28 (+ contact fungicide) days later depending on conditions.
Scab	3	propiconazole	Propizole 250 EC	EC	L7561	Villa Crop Protection	250 g/l	50 ml/100 L water	Aerial; Foliar	90	Apply five (5) applications.

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Scab	3	propiconazole	Tilt	EC	L6668	Syngenta South Africa (Pty) Ltd	250 g/L	50 ml/100 L water	Foliar	90	Apply 1000-2000 L spray mixture/ha. Refer to the label for detailed instructions. Spray intervals: when leaves unfold; 10-; 21- (+ contact fungicide); 28- (+ contact fungicide); 28 (+ contact fungicide) days later depending on conditions.
Septoria leaf spot	M5	chlorothalonil	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	Aerial; Foliar	120	Suppression only. Apply at beginning of the flowering period and at full bloom. Do additional applications as required on 14 - 28 days intervals. Maximum 5 applications per season. Do not apply with oils, pesticides, surfactants of fertilizers.
Shot-hole	M5	chlorothalonil	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	Aerial; Foliar	120	Suppression only. Apply at beginning of the flowering period and at full bloom. Do additional applications as required on 14 - 28 days intervals. Maximum 5 applications per season. Do not apply with oils, pesticides, surfactants of fertilizers.
Soil fungi	M5	furfural (aldehyde)	Protect	EC	L7534	Illovo Sugar Ltd	990 g/L	400-600 L/ha or 4-6 L/100m through drip	Drip; Broad spray; Seedbed	-	Read label carefully. Do treatment 7 days before planting. Irrigate after application or apply mechanical practices to move product into soil to a depth of 20-30 cm.
Stone fruit rust	M5	chlorothalonil	Bravo 720	SC	L7005	Syngenta South Africa (Pty) Ltd	720 g/L	3.5 L/ha	Aerial; Foliar	120	Apply at beginning of the flowering period and at full bloom. Do additional applications as required on 14 - 28 days intervals. Maximum 5 applications per season. Do not apply with oils, pesticides, surfactants of fertilizers.

Formulation notes: EC - Emulsifiable concentrate, WG - Water-dispersible granule, SC - Suspension concentrate, SL - Soluble concentrate  
 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.