



## 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                                     | Group code   | Trade name           | Form. | Reg. no. | Company                         | Active quantity                           | Dosage        | PHI (days) |
|---------------------|----------------------------------|-------------------------------------------------------|--------------|----------------------|-------|----------|---------------------------------|-------------------------------------------|---------------|------------|
| 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 + 3.5 g/L               | 500 ml/100 L  | 2          |
|                     |                                  |                                                       |              | Pygar 932            | SC    | L7146    |                                 | 473 g/L + 473 g/L + 0.6875 g/L            | 1.5-2 L/100L  | 1          |
| Aphids              | botanical                        | garlic juice extract                                  | -            | Garlic Repellent 930 | SC    | L7147    | Kannar Earth Science (Pty) Ltd  | 478 g/L                                   | 2-3 L/100L    | 0          |
|                     | 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 + 3.5 g/L               | 500 ml/100 L  | 2          |
|                     |                                  |                                                       |              | Pygar 932            | SC    | L7146    | Kannar Earth Science (Pty) Ltd  | 473 g/L + 473 g/L + 0.6875 g/L            | 1.5-2 L/100L  | 1          |
|                     | carbamates                       | pirimicarb                                            | IRAC 1A      | Apex 500 WDG         | WG    | L8475    | Villa Crop Protection (Pty) Ltd | 500 g/kg                                  | 100 g/100L    | 56         |
|                     |                                  |                                                       |              | Aphox                | WG    | L3428    | Syngenta South Africa (Pty) Ltd | 500 g/kg                                  | 100 g/100L    | 56         |
|                     |                                  |                                                       |              | Unipex 500 WDG       | WG    | L8474    | Villa Crop Protection (Pty) Ltd | 500 g/kg                                  | 100 g/100L    | 56         |
|                     | neonicotinoids                   | imidacloprid                                          | IRAC 4A      | Kohinor 350 SC       | SC    | L8447    | Adama South Africa (Pty) Ltd    | 350 g/L                                   | 18 ml/tree    | 200        |
| 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 + 3.5 g/L               | 500 ml/100 L  | 2          |
|                     |                                  |                                                       |              | Pygar 932            | SC    | L7146    | Kannar Earth Science (Pty) Ltd  | 473 g/L + 473 g/L + 0.6875 g/L            | 1.5-2 L/100L  | 1          |
| Banded fruit weevil | 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          |
|                     | pyrethroids                      | beta-cyfluthrin                                       | IRAC 3A      | Bulldock Beta 125 SC | SC    | L7612    | Bayer (Pty) Ltd                 | 125 g/L                                   | 1.2 ml/10L    | N/A        |
| Bollworm            | avermectins; milbemycins         | emamectin benzoate                                    | IRAC 6       | Proclaim             | SG    | L7581    | Syngenta South Africa (Pty) Ltd | 50 g/kg                                   | 22-34 g/100L  | 14         |
|                     |                                  |                                                       |              | Tarponon 50 WG       | WG    | L11338   | Enviro Industries (Pty) Ltd     | 50 g/kg                                   | 22-34 g/100L  | 14         |
|                     | 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 + 3.5 g/L               | 500 ml/100 L  | 2          |
|                     |                                  |                                                       |              | Pygar 932            | SC    | L7146    | Kannar Earth Science (Pty) Ltd  | 473 g/L + 473 g/L + 0.6875 g/L            | 1.5-2 L/100 L | 1          |
|                     | 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                     | Helicoverpa armigera nucleopolyhedrovirus             | -            | Helicovir            | SC    | L9543    | River Bioscience (Pty) Ltd      | 5 x 10 <sup>10</sup> occlusion bodies/ml  | 12 ml/100L    | N/A        |
|                     | microbials                       | bollworm nucleopolyhedrovirus                         | -            | Bolldex®             | SC    | L8895    | Andermatt Madumbi (Pty) Ltd     | 7.5 x 10 <sup>12</sup> occlusion bodies/L | 200 ml/ha     | N/A        |
|                     |                                  |                                                       |              | Graboll              | SC    | L9295    | Chempac (Pty) Ltd               | 7.5 x 10 <sup>12</sup> occlusion bodies/L | 200 ml/ha     | 0          |
|                     | 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         |
| 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 + 3.5 g/L               | 500 ml/100 L  | 2          |
|                     |                                  |                                                       |              | Pygar 932            | SC    | L7146    | Kannar Earth Science (Pty) Ltd  | 473 g/L + 473 g/L + 0.6875 g/L            | 1.5-2 L/100L  | 1          |



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### INSECTICIDES

| Target             | Group                         | Active ingredient                                   | Group code   | Trade name             | Form. | Reg. no. | Company                                    | Active quantity                                       | Dosage                                        | PHI (days) |
|--------------------|-------------------------------|-----------------------------------------------------|--------------|------------------------|-------|----------|--------------------------------------------|-------------------------------------------------------|-----------------------------------------------|------------|
| Codling moth       | avermectins; milbemycins      | emamectin benzoate                                  | IRAC 6       | Proclaim               | SG    | L7581    | Syngenta South Africa (Pty) Ltd            | 50 g/kg                                               | 22-34 g/100L                                  | 14         |
|                    |                               |                                                     |              | Tarpinon 50 WG         | WG    | L11338   | Enviro Industries (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         |
|                    | pheromones                    | (e,e)-8,10-dodecadien-1-ol                          | -            | BioLure CM             | RB    | L5690    | Spectrum Research Services cc              | 5.25 g/kg                                             | 1/trap/2 ha                                   | 0          |
|                    |                               |                                                     |              | Chempac BioLure CM-10X | RB    | L6232    | Spectrum Research Services cc              | 31.021 g/Kg                                           | 1/trap/2 ha                                   | 0          |
| European red mite  | avermectins; milbemycins      | abamectin                                           | 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         |
| 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         |
|                    |                               |                                                     |              | Tarpinon 50 WG         | WG    | L11338   | Enviro Industries (Pty) Ltd                | 50 g/kg                                               | 22-34 g/100L                                  | 14         |
|                    | diacylhydrazines              | methoxyfenozide                                     | IRAC 18      | Cohort 240 SC          | SC    | L10866   | FarmAg International (Pty) Ltd             | 240 g/L                                               | 60 ml/100L                                    | 14         |
|                    |                               |                                                     |              | Marksman 240 SC        | SC    | L10389   | ICA International Chemicals (Pty) Ltd      | 240 g/L                                               | 60 ml/100L                                    | 14         |
|                    |                               |                                                     |              | Runner 240 SC          | SC    | L7779    | Dow AgroSciences Southern Africa (Pty) Ltd | 240 g/L                                               | 60 ml/100L                                    | 14         |
|                    |                               |                                                     |              | Walker 240 SC          | SC    | L10348   | Villa Crop Protection (Pty) Ltd            | 240 g/L                                               | 60 ml/100L                                    | 14         |
|                    |                               |                                                     |              | Bolt 240 SC            | SC    | L11215   | AECI Limited                               | 240 g/L                                               | 60 ml/100L                                    | 14         |
|                    |                               |                                                     |              | Chimera 240 SC         | SC    | L11186   | Adama South Africa (Pty) Ltd               | 240 g/L                                               | 60 ml/100L                                    | 14         |
|                    | diamides                      | chlorantraniliprole                                 | IRAC 28      | Altacor                | WG    | L8467    | DuPont SA                                  | 350 g/kg                                              | 10 g/100L                                     | 10         |
|                    |                               |                                                     |              | 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                  | Thaumotobia (Cryptophlebia) leucotreta granulovirus | -            | Cryptex                | SC    | L8037    | Andermatt Madumbi (Pty) Ltd                | 2 x 10 <sup>10</sup> occlusion bodies/ml <sup>2</sup> | 3.3 ml/100L                                   | N/A        |
|                    |                               |                                                     |              | Cryptogran             | SC    | L7598    | River Bioscience (Pty) Ltd                 | 5 x 10 <sup>10</sup> occlusion bodies/ml              | 10 ml/100 L                                   | N/A        |
|                    |                               |                                                     |              | GraTham                | SC    | L9038    | Chempac (Pty) Ltd                          | 2 x 10 <sup>10</sup> occlusion bodies/ml              | 3.3 ml/100L                                   | N/A        |
|                    | microbials                    | Beauveria bassiana                                  | -            | Broadband              | EC    | L8270    | BASF South Africa (Pty) Ltd                | 4 x 10 <sup>9</sup> spores/ml                         | 50 ml/100L                                    | 0          |
|                    |                               |                                                     |              | Eco-Bb                 | SC    | L8469    | Andermatt Madumbi (Pty) Ltd                | 2 x 10 <sup>9</sup> spores/g                          | 1 g/L                                         | N/A        |
|                    | 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         |
|                    | oxadiazines                   | indoxacarb                                          | IRAC 22A     | Steward 150 EC         | EC    | L8435    | FMC Chemicals (Pty) Ltd                    | 150 g/L                                               | 50 ml/100L                                    | 14         |
|                    |                               |                                                     |              | InCide 300 WG          | EC    | L10524   | FMC Chemicals (Pty) Ltd                    | 150 g/L                                               | 25 g/100L                                     | 14         |



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| Target              | Group                            | Active ingredient                                                           | Group code   | Trade name                    | Form.    | Reg. no.       | Company                                                          | Active quantity                                               | Dosage                                        | PHI (days) |
|---------------------|----------------------------------|-----------------------------------------------------------------------------|--------------|-------------------------------|----------|----------------|------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------|------------|
| False codling moth  | pheromones                       | (e)-7-dodecenyl acetate + (e)-8-dodecenyl acetate + (z)-8-dodecenyl acetate | -            | F.C.M. PheroLure              | VP       | L7875          | Insect Science (Pty) Ltd                                         | 12.5 + 10.4 + 2.1 mg/lure                                     | 1 trap/4-5 ha                                 | 0          |
|                     |                                  | (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          |
|                     |                                  |                                                                             |              | X-Mate F.C.M.                 | GS       | L10320         | Insect Science (Pty) Ltd                                         | 962.5 mg + 287.5 mg each                                      | 1 disp. / 250 m <sup>2</sup> (25 disp.s / ha) | N/A        |
|                     |                                  |                                                                             |              | Isomate FCM                   | VP       | L7692          | AECI Limited                                                     | 0.24 g/kg                                                     | 800 disp./ha/season                           | N/A        |
|                     |                                  |                                                                             |              | CheckMate FCM-F               | CS       | L8384          | Spectrum Research Services cc                                    | 175.2 g/L + 49.8 g/L                                          | 110 ml/ha                                     | N/A        |
|                     | 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 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                                                       | 30 g/100L                                     | 50         |
|                     |                                  |                                                                             |              | Vitex 50                      | WG       | L9525          | Meridian Agrochemical Company (Pty) Ltd                          | 50 g/kg                                                       | 30 g/100L                                     | 50         |
|                     |                                  |                                                                             |              | Conflict Granule              | WG       | L11195         | Villa Crop Protection (Pty) Ltd                                  | 50 g/kg                                                       | 7.5 g/100L                                    | 50         |
|                     | neonicotinoids                   | acetamiprid                                                                 | IRAC 4A      | Allice 20 SP                  | SP       | L8723          | Arysta LifeScience South Africa (Pty) Ltd                        | 200 g/kg                                                      | 50 g/100L                                     | 50         |
|                     |                                  |                                                                             |              | Wonderland 200 SP             | SP       | L10057         | FarmAg International (Pty) Ltd                                   | 200 g/L                                                       | 50 g/100L                                     | 50         |
|                     |                                  |                                                                             |              | Tension 200 SP                | SP       | L11213         | Farmkem Speciality Products (Pty) Ltd                            | 200 g/kg                                                      | 50 g/100L                                     | 50         |
|                     | 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          |
| Mealybug            | spinosyns                        | spinetoram                                                                  | IRAC 5       | Delegate 250 WG               | WG       | L8392          | Dow AgroSciences Southern Africa (Pty) Ltd                       | 250 g/kg                                                      | 20 g/100L                                     | 7          |
|                     | spore concentrate                | Metarhizium anisopliae                                                      | -            | Real Metarhizium 69           | -        | L9281          | Real IMP South Africa Pty Ltd                                    | At least 1 x 10 <sup>9</sup> cfu/ml                           | 200-400 ml/ha                                 | N/A        |
|                     | 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       | Agrimec Gold                  | SC       | L9235          | Syngenta South Africa (Pty) Ltd                                  | 84 g/L                                                        | 130-320 ml/ha + 0.25% light mineral spray oil | 14         |
|                     |                                  |                                                                             |              |                               |          |                |                                                                  |                                                               |                                               |            |
|                     | botanical + aromatic + pyrethrin | canola oil + garlic juice extract + pyrethrin extract                       | IRAC 3A      | KangroShield 100<br>Pygar 932 | SC<br>SC | L7630<br>L7146 | Kannar Earth Science (Pty) Ltd<br>Kannar Earth Science (Pty) Ltd | 250 g/L + 642 g/L + 3.5 g/L<br>473 g/L + 473 g/L + 0.6875 g/L | 500 ml/100 L<br>1.5-2 L/100L                  | 2<br>1     |



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### INSECTICIDES

| Target     | Group                            | Active ingredient                                     | Group code   | Trade name           | Form. | Reg. no. | Company                                    | Active quantity                     | Dosage                            | PHI (days) |
|------------|----------------------------------|-------------------------------------------------------|--------------|----------------------|-------|----------|--------------------------------------------|-------------------------------------|-----------------------------------|------------|
| Stem borer | carbamates                       | carbaryl                                              | IRAC 1A      | Sevin XLR Plus       | SC    | L5783    | Villa Crop Protection (Pty) Ltd            | 480 g/L                             | 450 ml/100L                       | 0          |
|            | pyrethroids                      | beta-cyfluthrin                                       | IRAC 3A      | Bulldock Beta 125 SC | SC    | L7612    | Bayer (Pty) Ltd                            | 125 g/L                             | 1.2 ml/10L                        | N/A        |
| 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         |
|            | neonicotinoids                   | thiamethoxam                                          | IRAC 4A      | Actara SC            | SC    | L7207    | Syngenta South Africa (Pty) Ltd            | 240 g/L                             | 9 then 6 ml/tree<br>90 days later | 93         |
|            | organophosphates                 | acephate                                              | IRAC 1B      | Acephate 750 SP      | SP    | L7181    | Villa Crop Protection (Pty) Ltd            | 750 g/kg                            | 75 g/100L                         | 35         |
|            | pyrethroids                      | alpha-cypermethrin                                    | IRAC 3A      | Fastac SC            | SC    | L4992    | BASF South Africa (Pty) Ltd                | 100 g/L                             | 10 ml/100L                        | 30         |
|            |                                  | lambda-cyhalothrin                                    | IRAC 3A      | Karate EC            | EC    | L3752    | Syngenta South Africa (Pty) Ltd            | 50 g/L                              | 10 ml/100L                        | 7          |
|            |                                  |                                                       |              | Karate Zeon          | CS    | L6330    | Syngenta South Africa (Pty) Ltd            | 50 g/L                              | 100-200 ml/ha                     | 14         |
|            |                                  |                                                       |              | Karate Zeon 10 CS    | CS    | L9023    | Syngenta South Africa (Pty) Ltd            | 100 g/L                             | 5 ml/100L                         | 14         |
|            | pyridine azomethine derivatives  | pymetrozine                                           | IRAC 9B      | Chess                | WG    | L8104    | Syngenta South Africa (Pty) Ltd            | 500 g/kg                            | 40 g/100L                         | 21         |
|            |                                  |                                                       |              | Pymetrozine 500 WG   | WG    | L11095   | Arysta LifeScience 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 + 3.5 g/L         | 500 ml/100 L                      | 2          |
|            |                                  |                                                       |              | Pygar 932            | SC    | L7146    | Kannar Earth Science (Pty) Ltd             | 473 g/L + 473 g/L + 0.6875 g/L      | 1.5-2 L/100L                      | 1          |
|            | neonicotinoids                   | imidacloprid                                          | IRAC 4A      | Kohinor 350 SC       | SC    | L8447    | Adama South Africa (Pty) Ltd               | 350 g/L                             | 18 ml/tree                        | 200        |
|            | spinosyns                        | spinetoram                                            | IRAC 5       | Delegate 250 WG      | WG    | L8392    | Dow AgroSciences Southern Africa (Pty) Ltd | 250 g/kg                            | 10 g/100L                         | 7          |
|            | spore concentrate                | Metarhizium anisopliae                                | -            | Real Metarhizium 69  | -     | L9281    | Real IMP South Africa Pty Ltd              | At least 1 x 10 <sup>9</sup> cfu/ml | 200-400 ml/ha                     | N/A        |
| 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 + 3.5 g/L         | 500 ml/100 L                      | 2          |
|            |                                  |                                                       |              | Pygar 932            | SC    | L7146    | Kannar Earth Science (Pty) Ltd             | 473 g/L + 473 g/L + 0.6875 g/L      | 1.5-2 L/100L                      | 1          |

**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.

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

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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   |
|                        | cyprodinil + fludioxonil      | FRAC 9 + 12 | Switch           | WG    | L5926    | Syngenta South Africa (Pty) Ltd         | 375 g/L + 250 g/L                   | 800-950 g/ha   | 7   |
| Alternaria late blight | azoxystrobin + difenoconazole | FRAC 11 + 3 | Dimension 325 SC | SC    | L10355   | FarmAg International (Pty) Ltd          | 200 g/L + 125 g/L                   | 500-1000 ml/ha | 45  |
|                        |                               |             | Rendefed 325 SC  | SC    | L11330   | AECI Limited                            | 200 g/L + 125 g/L                   | 500-1000 ml/ha | 45  |
| Alternaria leaf spot   | azoxystrobin + difenoconazole | FRAC 11 + 3 | Dimension 325 SC | SC    | L10355   | FarmAg International (Pty) Ltd          | 200 g/L + 125 g/L                   | 500-1000 ml/ha | 45  |
|                        |                               |             | Revert SC        | SC    | L10830   | Sharda International (Pty) Ltd          | 200g/l +125g/l                      | 500-1000 ml/ha | 45  |
|                        |                               |             | Rendefed 325 SC  | SC    | L11330   | AECI Limited                            | 200 g/L + 125 g/L                   | 500-1000 ml/ha | 45  |
| Anthracnose            | azoxystrobin                  | FRAC 11     | Ortiva           | SC    | L5968    | Syngenta South Africa (Pty) Ltd         | 250 g/L                             | 480-880 ml/ha  | 45  |
|                        | azoxystrobin + difenoconazole | FRAC 11 + 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   | FarmAg International (Pty) Ltd          | 200 g/L + 125 g/L                   | 500-1000 ml/ha | 45  |
|                        |                               |             | Fortress Ultra   | SC    | L10450   | Meridian Agrochemical Company (Pty) Ltd | 200 g/L + 125 g/L                   | 500-1000 ml/ha | 45  |
|                        |                               |             | Rendefed 325 SC  | SC    | L11330   | AECI Limited                            | 200 g/L + 125 g/L                   | 500-1000 ml/ha | 45  |
|                        | boscalid + pyraclostrobin     | FRAC 7 + 11 | Bellis           | WG    | L7817    | BASF South Africa (Pty) Ltd             | 252 g/kg + 128 g/kg                 | 800 g/ha       | 14  |
|                        |                               |             | Prevent 380 WDG  | WDG   | L11353   | Sharda Africa                           | 252 g/kg + 128 g/kg                 | 800 g/ha       | 14  |
| Botrytis blight        | chlorothalonil                | FRAC M5     | Bravo 720        | SC    | L7005    | Syngenta South Africa (Pty) Ltd         | 720 g/L                             | 3.5 L/ha       | 120 |
|                        | cyprodinil + fludioxonil      | FRAC 9 + 12 | Switch           | WG    | L5926    | Syngenta South Africa (Pty) Ltd         | 375 g/L + 250 g/L                   | 800-950 g/ha   | 7   |
|                        | Trichoderma asperellum        | -           | Real Trichoderma | -     | L10775   | Real IMP South Africa Pty Ltd           | At least 1 x 10 <sup>8</sup> cfu/ml | 200-400 ml/ha  | N/A |
| 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 + 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   | FarmAg International (Pty) Ltd          | 200 g/L + 125 g/L                   | 500-1000 ml/ha | 45  |
|                        |                               |             | Rendefed 325 SC  | SC    | L11330   | AECI Limited                            | 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 |
| Husk rot               | boscalid + pyraclostrobin     | FRAC 7 + 11 | Bellis           | WG    | L7817    | BASF South Africa (Pty) Ltd             | 252 g/kg + 128 g/kg                 | 800 g/ha       | 14  |
|                        |                               |             | Prevent 380 WDG  | WDG   | L11353   | Sharda Africa                           | 252 g/kg + 128 g/kg                 | 800 g/ha       | 14  |
|                        |                               |             | Bostrin 380 WG   | WG    | L11445   | ICA International Chemicals (Pty) Ltd   | 252 g/kg + 128 g/kg                 | 800 g/ha       | 14  |
| Husk spot              | boscalid + pyraclostrobin     | FRAC 7 + 11 | Bellis           | WG    | L7817    | BASF South Africa (Pty) Ltd             | 252 g/kg + 128 g/kg                 | 800 g/ha       | 14  |
|                        |                               |             | Prevent 380 WDG  | WDG   | L11353   | Sharda Africa                           | 252 g/kg + 128 g/kg                 | 800 g/ha       | 14  |
|                        |                               |             | Bostrin 380 WG   | WG    | L11445   | ICA International Chemicals (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/100L     | 45  |
| Late blight            | azoxystrobin + difenoconazole | FRAC 11 + 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 + 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   | FarmAg International (Pty) Ltd          | 200 g/L + 125 g/L                   | 500-1000 ml/ha | 45  |
|                        |                               |             | Rendefed 325 SC  | SC    | L11330   | AECI Limited                            | 200 g/L + 125 g/L                   | 500-1000 ml/ha | 45  |
| Leaf spot              | azoxystrobin + difenoconazole | FRAC 11 + 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   | FarmAg International (Pty) Ltd          | 200 g/L + 125 g/L                   | 500-1000 ml/ha | 45  |
|                        |                               |             | Rendefed 325 SC  | SC    | L11330   | AECI Limited                            | 200 g/L + 125 g/L                   | 500-1000 ml/ha | 45  |

## Registered product list for Pecan nuts in South Africa

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



## FUNGICIDES

| Disease                                                   | Active ingredient                                         | Group code  | Trade name           | Form. | Reg. no. | Company                               | Active quantity     | Dosage                               | PHI |
|-----------------------------------------------------------|-----------------------------------------------------------|-------------|----------------------|-------|----------|---------------------------------------|---------------------|--------------------------------------|-----|
| Panicle and shoot blight                                  | azoxystrobin + difenoconazole                             | FRAC 11 + 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   | FarmAg International (Pty) Ltd        | 200 g/L + 125 g/L   | 500-1000 ml/ha                       | 45  |
|                                                           |                                                           |             | Rendefed 325 SC      | SC    | L11330   | AECI Limited                          | 200 g/L + 125 g/L   | 500-1000 ml/ha                       | 45  |
| Phytophthora                                              | mefenoxam (phenylamide)                                   | FRAC 4      | RidomilGold 480SL    | SL    | L8962    | Syngenta South Africa (Pty) Ltd       | 480 g/L             | 4.7 L/ha or 48 ml/100 m <sup>2</sup> | 30  |
| Powdery mildew                                            | azoxystrobin + difenoconazole                             | FRAC 11 + 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   | FarmAg International (Pty) Ltd        | 200 g/L + 125 g/L   | 500-1000 ml/ha                       | 45  |
|                                                           |                                                           |             | Rendefed 325 SC      | SC    | L11330   | AECI Limited                          | 200 g/L + 125 g/L   | 500-1000 ml/ha                       | 45  |
| Root diseases                                             | Trichoderma asperellum                                    | -           | Eco-T                | SC    | L6938    | Andermatt Madumbi (Pty) Ltd           | (blank)             | 250 g/ha                             | N/A |
| Scab<br>( <i>Cladosporium cladosporioides</i> )           | azoxystrobin                                              | FRAC 11     | Ortiva               | SC    | L5968    | Syngenta South Africa (Pty) Ltd       | 250 g/L             | 480-880 ml/ha                        | 45  |
|                                                           | azoxystrobin + difenoconazole                             | FRAC 11 + 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   | FarmAg International (Pty) Ltd        | 200 g/L + 125 g/L   | 500-1000 ml/ha                       | 45  |
|                                                           |                                                           |             | Rendefed 325 SC      | SC    | L11330   | AECI Limited                          | 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 |
|                                                           | fentin hydroxide                                          | FRAC 30     | Ag-Tin               | SC    | L9493    | Rolfes Agri (Pty) Ltd                 | 480 g/L             | 50 ml/100L                           | N/A |
|                                                           | propiconazole                                             | FRAC 3      | Bumper 250 EC        | EC    | L6034    | Adama South Africa (Pty) Ltd          | 250 g/L             | 50 ml/100L                           | 90  |
|                                                           |                                                           |             | Makhrozele 250 EC    | EC    | L7974    | Villa Crop Protection (Pty) Ltd       | 250 g/L             | 50 ml/100L                           | 90  |
|                                                           |                                                           |             | Propin 250 EC        | EC    | L10487   | Sharda International (Pty) Ltd        | 250 g/L             | 50 ml/100L                           | 90  |
|                                                           |                                                           |             | Propizole 250 EC     | EC    | L7561    | Villa Crop Protection (Pty) Ltd       | 250 g/L             | 50 ml/100L                           | 90  |
|                                                           |                                                           |             | Tilt                 | EC    | L6668    | Syngenta South Africa (Pty) Ltd       | 250 g/L             | 50 ml/100L                           | 90  |
|                                                           |                                                           |             | Principle 250 EC     | EC    | L10533   | ICA International Chemicals (Pty) Ltd | 250 g/ℓ             | 50 ml/100L                           | 90  |
|                                                           |                                                           |             | Propiconazole 250 EC | EC    | L7306    | Villa Crop Protection (Pty) Ltd       | 250 g/L             | 50 ml/100L                           | 90  |
|                                                           | potassium bicarbonate [syn. potassium hydrogen carbonate] | FRAC NC     | Agri-Cure SP         | SP    | L8549    | N Laboratories (Pty) Ltd              | 850 g/kg            | 300-500 g/100L + 100 ml/100L Twister | 0   |
| Blossom blight<br>( <i>Cladosporium cladosporioides</i> ) | azoxystrobin + difenoconazole                             | FRAC 11 + 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   | FarmAg International (Pty) Ltd        | 200 g/L + 125 g/L   | 500-1000 ml/ha                       | 45  |
|                                                           |                                                           |             | Rendefed 325 SC      | SC    | L11330   | AECI Limited                          | 200 g/L + 125 g/L   | 500-1000 ml/ha                       | 45  |
|                                                           | boscalid + pyraclostrobin                                 | FRAC 7 + 11 | Bellis               | WG    | L7817    | BASF South Africa (Pty) Ltd           | 252 g/kg + 128 g/kg | 800 g/ha                             | 14  |
|                                                           |                                                           |             | Prevent 380 WDG      | WDG   | L11353   | Sharda Africa                         | 252 g/kg + 128 g/kg | 800 g/ha                             | 14  |
|                                                           |                                                           |             | Bostrin 380 WG       | WG    | L11445   | ICA International Chemicals (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 |
| 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 |
| Soil fungi & plant parasitic nematodes                    | furfural (aldehyde)                                       | FRAC M5     | Protect              | EC    | L7534    | Illovo Sugar Ltd                      | 990 g/L             | 400-600 L/ha                         | N/A |
| 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 targets cause problems in pecan nut orchards.

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

## Registered product list for Pecan nuts in South Africa

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



## HERBICIDES

| Group code | Active ingredient   | Trade name               | Form. | Reg. no. | Company                                    | Active quantity  |
|------------|---------------------|--------------------------|-------|----------|--------------------------------------------|------------------|
| HRAC A     | cycloxydim          | Focus Ultra              | EC    | L4319    | BASF South Africa (Pty) Ltd                | 100 g/L          |
|            | fluazifop-P-butyl   | Fusilade Forte           | EC    | L7304    | Syngenta South Africa (Pty) Ltd            | 150 g/L          |
| HRAC C2    | diuron              | Ag-Diuron 800 SC         | SC    | L7952    | Rolfes Agri (Pty) Ltd                      | 800 g/L          |
|            |                     | Develop 800 WDG          | WG    | L9109    | Villa Crop Protection (Pty) Ltd            | 800 g/kg         |
|            |                     | Diurex 80 WG             | WG    | L8139    | Adama South Africa (Pty) Ltd               | 800 g/kg         |
|            |                     | Diurex 800 SC            | SC    | L5334    | Adama South Africa (Pty) Ltd               | 800 g/L          |
|            |                     | Diuron 800 SC (L6236)    | SC    | L6236    | Arysta LifeScience South Africa (Pty) Ltd  | 800 g/L          |
|            |                     | Diuron 800 SC (L7042)    | SC    | L7042    | Arysta LifeScience South Africa (Pty) Ltd  | 800 g/L          |
|            |                     | Diuron 800 WG            | WG    | L7040    | Arysta LifeScience South Africa (Pty) Ltd  | 800 g/kg         |
|            |                     | Dynamo 800 SC            | SC    | L9619    | Sharda International (Pty) Ltd             | 800 g/L          |
|            |                     | Extend 800 WDG           | WG    | L9108    | Villa Crop Protection (Pty) Ltd            | 800 g/kg         |
|            |                     | FarmAg Diuron 800 SC     | SC    | L5663    | FarmAg International (Pty) Ltd             | 800 g/L          |
|            |                     | FarmAg Diuron 800 WG     | WG    | L8981    | FarmAg International (Pty) Ltd             | 800 g/L          |
|            |                     | Farmex                   | WG    | L8749    | Arysta LifeScience South Africa (Pty) Ltd  | 800 g/kg         |
|            |                     | Karmex DF (L7998)        | WG    | L7998    | Arysta LifeScience South Africa (Pty) Ltd  | 800 g/kg         |
|            |                     | Nufarm Diuron 900 WG     | WG    | L5365    | Nufarm Agriculture (Pty) Ltd               | 900 g/kg         |
| HRAC D     | diquat + paraquat   | Parody 200 SL            | SL    | L8398    | Arysta LifeScience South Africa (Pty) Ltd  | 80 g/L + 120 g/L |
|            |                     | Preeglon                 | WS    | L3304    | Syngenta South Africa (Pty) Ltd            | 80 g/L + 120 g/L |
|            | paraquat            | Agriquat 200 SL          | SC    | L6297    | AECI Limited                               | 200 g/L          |
|            |                     | Agroquat 200 SL          | SL    | L4871    | AECI Limited                               | 200 g/L          |
|            |                     | AVI-Paraquat             | SL    | L4461    | Avima (Pty) Ltd                            | 200 g/L          |
|            |                     | Castle Paraquat 200      | SL    | L4167    | FarmAg International (Pty) Ltd             | 276 g/L          |
|            |                     | Gramoxone                | SL    | L1174    | Syngenta South Africa (Pty) Ltd            | 200 g/L          |
|            |                     | Harpoon 200 SL           | SL    | L9309    | FarmAg International (Pty) Ltd             | 200 g/L          |
|            |                     | Makhro Paraquat          | SL    | L7906    | Makhro-Agro SA (Pty) Ltd                   | 200 g/L          |
|            |                     | Paragone SL              | SL    | L4588    | AECI Limited                               | 200 g/L          |
|            |                     | Paraquat 200             | WS    | L7650    | Enviro Industries (Pty) Ltd                | 200 g/L          |
|            |                     | Paraquat SL              | SL    | L2215    | Arysta LifeScience South Africa (Pty) Ltd  | 200 g/L          |
|            |                     | Remquat 200 SL           | SL    | L10004   | Remitto                                    | 200 g/L          |
|            |                     | Scorcher                 | SL    | L9085    | Meridian Agrochemical Company (Pty) Ltd    | 200 g/L          |
|            |                     | Sharda Paraquat 200 SL   | SL    | L9432    | Sharda International (Pty) Ltd             | 200 g/L          |
|            |                     | Shinquat 200 SL          | SL    | L7864    | Rolfes Agri (Pty) Ltd                      | 200 g/L          |
|            |                     | Skoffel 145 SL           | SL    | L4347    | Villa Crop Protection (Pty) Ltd            | 145 g/L          |
|            |                     | Skoffel 200 Super        | SL    | L6328    | Villa Crop Protection (Pty) Ltd            | 200 g/L          |
|            |                     | FarmAg Paraquat 200      | WG    | L9059    | FarmAg International (Pty) Ltd             | 200 g/L          |
|            |                     | Agroquat                 | SG    | L4607    | Arysta LifeScience South Africa (Pty) Ltd  | 200 g/L          |
|            |                     | Paraquat 200 SL          | SL    | L10180   | Green Island Investments (Pty) Ltd         | 200 g/L          |
|            |                     | Enviro Paraquat          | WG    | L11172   | FarmAg International (Pty) Ltd             | 200 g/L          |
| HRAC E     | carfentrazone-ethyl | Aurora 40 WG             | WG    | L6794    | FMC Chemicals (Pty) Ltd                    | 400 g/kg         |
|            |                     | Grainwatch 400 WDG       | WGD   | L10719   | Universal Crop Protection (Pty) Ltd        | 400 g/kg         |
|            |                     | Torus                    | EC    | L10709   | Meridian Agrochemical Company (Pty) Ltd    | 250 g/L          |
| HRAC G     | glyphosate          | Bounty SL                | SL    | L7268    | Meridian Agrochemical Company (Pty) Ltd    | 360 g/L          |
|            |                     | Enviro Glyphosate 360    | SL    | L4767    | Enviro Industries (Pty) Ltd                | 360 g/L          |
|            |                     | Erase 360 SL             | SL    | L6206    | AECI Limited                               | 360 g/L          |
|            |                     | Glygran 710 SG           | SG    | L8449    | Villa Crop Protection (Pty) Ltd            | 710 g/kg         |
|            |                     | Glynox 540 SL            | SL    | L10937   | AECI Limited                               | 662 g/L          |
|            |                     | Glyphogan plus           | SL    | L10700   | Adama South Africa (Pty) Ltd               | 757 g/kg         |
|            |                     | Glyphosate WSG           | SG    | L7119    | Arysta LifeScience South Africa (Pty) Ltd  | 500 g/kg         |
|            |                     | Kalach 510 SL            | SL    | L8311    | Arysta LifeScience South Africa (Pty) Ltd  | 510 g/L          |
|            |                     | Kalach 700 WSG           | SG    | L8312    | Arysta LifeScience South Africa (Pty) Ltd  | 700 g/kg         |
|            |                     | Makhro Glyphosate 360 SL | SL    | L7969    | Makhro-Agro SA (Pty) Ltd                   | 360 g/L          |
|            |                     | Mamba 360 SL             | SL    | L4817    | Dow AgroSciences Southern Africa (Pty) Ltd | 360 g/L          |
|            |                     | Mamba DMA 480 SL         | SL    | L8388    | Dow AgroSciences Southern Africa (Pty) Ltd | 480 g/L          |
|            |                     | Mamba Max 480 SL         | SL    | L7714    | Dow AgroSciences Southern Africa (Pty) Ltd | 480 g/L          |
|            |                     | Muscle-Up 360 SL         | SL    | L7935    | Rolfes Agri (Pty) Ltd                      | 360 g/L          |
|            |                     | Nexus Glyphosate 360     | SL    | L7113    | Arysta LifeScience South Africa (Pty) Ltd  | 360 g/L          |
|            |                     | Panga 360 SL             | SL    | L7812    | Villa Crop Protection (Pty) Ltd            | 360 g/L          |
|            |                     | Panga High-Load 600 SL   | SL    | L9735    | Villa Crop Protection (Pty) Ltd            | 600 g/L          |
|            |                     | Panga Turbo 450 SL       | SL    | L8506    | Villa Crop Protection (Pty) Ltd            | 450 g/L          |
|            |                     | Piranha 510 SL           | SG    | L9314    | FarmAg International (Pty) Ltd             | 680 g/kg         |
|            |                     | Piranha Dry              | SG    | L9593    | FarmAg International (Pty) Ltd             | 757 g/kg         |
|            |                     | Pirhana 360 SL           | SL    | L8877    | FarmAg International (Pty) Ltd             | 360 g/L          |



## Registered product list for Pecan nuts in South Africa

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



## HERBICIDES

| Group code | Active ingredient    | Trade name                | Form. | Reg. no. | Company                                   | Active quantity |
|------------|----------------------|---------------------------|-------|----------|-------------------------------------------|-----------------|
| HRAC G     | glyphosate           | Rondo 757 SG              | SG    | L9490    | DVA Chemicals South Africa (Pty) Ltd      | 757 g/kg        |
|            |                      | Roundup                   | SL    | L0407    | Monsanto South Africa (Pty) Ltd           | 360 g/L         |
|            |                      | Roundup Max               | SG    | L6790    | Monsanto South Africa (Pty) Ltd           | 680 g/kg        |
|            |                      | Roundup Turbo             | WS    | L7166    | Monsanto South Africa (Pty) Ltd           | 450 g/L         |
|            |                      | Scat 360 SL               | SL    | L5716    | Villa Crop Protection (Pty) Ltd           | 360 g/L         |
|            |                      | Seismic                   | SL    | L7016    | Arysta LifeScience South Africa (Pty) Ltd | 480 g/L         |
|            |                      | Sharda Glyphosate 360 SL  | SL    | L8901    | Sharda International (Pty) Ltd            | 360 g/L         |
|            |                      | Silvimax                  | SL    | L9851    | FarmAg International (Pty) Ltd            | 686 g/kg        |
|            |                      | Silvinator                | SL    | L9850    | FarmAg International (Pty) Ltd            | 510 g/L         |
|            |                      | Slash 360 SL              | SL    | L7811    | Villa Crop Protection (Pty) Ltd           | 360 g/L         |
|            |                      | Slash 710 SG              | SG    | L8450    | Villa Crop Protection (Pty) Ltd           | 710 g/kg        |
|            |                      | Slash Turbo 450 SL        | SL    | L8505    | Villa Crop Protection (Pty) Ltd           | 450 g/L         |
|            |                      | Springbok 360 SL          | SL    | L6719    | Arysta LifeScience South Africa (Pty) Ltd | 360 g/L         |
|            |                      | Touchdown Forte HiTech    | SL    | L7305    | Syngenta South Africa (Pty) Ltd           | 500 g/L         |
|            |                      | TumbleWeed                | SL    | L4781    | Enviro Industries (Pty) Ltd               | 240 g/L         |
|            |                      | Piranha 360 SL            | SL    | L8877    | FarmAg International (Pty) Ltd            | 360 g/L         |
| HRAC K1    | trifluralin          | Nufarm Trifluralin 480 EC | EC    | L5414    | Nufarm Agriculture (Pty) Ltd              | 480 g/L         |
|            |                      | Rifle 480 EC              | EC    | L8137    | Villa Crop Protection (Pty) Ltd           | 480 g/L         |
|            |                      | Trifluralin 480 EC        | EC    | L4555    | Villa Crop Protection (Pty) Ltd           | 480 g/L         |
|            |                      | Triflurex 480 EC          | EC    | L5350    | Adama South Africa (Pty) Ltd              | 480 g/L         |
|            |                      | Sharda Trif 480 EC        | EC    | L10885   | Sharda International (Pty) Ltd            | 480 g/L         |
| HRAC L29   | indaziflam           | Alion                     | SL    | L10791   | Bayer (Pty) Ltd                           | 500 g/L         |
| HRAC H10   | glufosinate-ammonium | Basta                     | SL    | L4872    | BASF South Africa (Pty) Ltd               | 200 g/L         |
|            |                      | Coller 200 SL             | SL    | L10606   | Kwefenga SA                               | 200 g/L         |
|            |                      | Glufos 200 SL             | SL    | L9715    | Sharda International (Pty) Ltd            | 200 g/L         |
|            |                      | Knorsus 200 SL            | SL    | L10631   | AECI Limited                              | 200 g/L         |
|            |                      | Lifeline                  | SL    | L10151   | Cropserve (Pty) Ltd                       | 280 g/L         |
|            |                      | Nirvana                   | SL    | L9838    | Meridian Agrochemical Company (Pty) Ltd   | 200 g/L         |
|            |                      | Silent                    | SL    | L9545    | Wentek Chemicals (Pty) Ltd                | 200 g/L         |
|            |                      | Bound 200 SL              | SL    | L9280    | Villa Crop Protection (Pty) Ltd           | 200 g/L         |
|            |                      | Fullstop 200 SL           | SL    | L11276   | FarmAg International (Pty) Ltd            | 200 g/L         |
|            |                      | Blative 200 SL            | SL    | L11127   | Enviro Industries (Pty) Ltd               | 200 g/L         |

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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.



**Registered product list for Pecan nuts in South Africa**

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

**ADJUVANTS, PLANT GROWTH REGULATORS & NEMATICIDES**

| Group                  | Active ingredient                                                         | Trade name      | Form. | Reg. no. | Company                                   | Active quantity             |
|------------------------|---------------------------------------------------------------------------|-----------------|-------|----------|-------------------------------------------|-----------------------------|
| Adjuvant               | polyether-polymethylsiloxane-copolymer                                    | Break-Thru      | EC    | L6764    | Evonik Degussa Africa (Pty) Ltd Co        | 1000 g/L                    |
|                        |                                                                           | Charge          | EC    | L9100    | Villa Crop Protection (Pty) Ltd           | 1000 g/L                    |
|                        |                                                                           | Supawett        | EC    | L7202    | Rolfes Agri (Pty) Ltd                     | 1000 g/L                    |
|                        |                                                                           | Techniwet Super | EC    | L9239    | Farmkem Speciality Products (Pty) Ltd     | 1000 g/L                    |
|                        | terpenic polymer                                                          | Sprayfilm 10    | EC    | L7120    | Arysta LifeScience South Africa (Pty) Ltd | 902.4 g/L                   |
|                        | isotridecanol                                                             | Villa 51        | EC    | L8050    | Villa Crop Protection (Pty) Ltd           | 918 g/L                     |
|                        | orange oil                                                                | Wetcit Duo      | EC    | L10448   | Oro Agri SA (Pty) Ltd                     | 50 g/L + 68 g/L             |
|                        |                                                                           | Orosorb Duo     | EC    | L10462   |                                           | 50 g/L + 68 g/L             |
|                        | polysorbate 80                                                            | Biodew          | EC    | L8120    | AECI Limited                              | 607 g/L                     |
|                        | phosphoric acid + ethoxylated phosphate ester + methyl red (pH indicator) | Bladbuff 7      | EC    | L8121    |                                           | 353 g/L + 169 g/L + 0.8 g/L |
|                        | organic buffer system and alcohol ethoxylate                              | Kynobuff        | EC    | L4246    |                                           | 493.6 g/L                   |
|                        | synthetic latex + alcohol ethoxylate                                      | Bond            | EC    | L6756    |                                           | 450 g/L + 100 g/L           |
|                        | phosphatidylcholine, methylacetic acid and alkyl polyoxyethelene ether    | LI 700          | EC    | L6550    |                                           | 800 g/L                     |
|                        | buffering system + wetting agent                                          | Aqua-Right 5    | EC    | L6205    | Rolfes Agri (Pty) Ltd                     | 820 + 56 g/L                |
|                        | alcohol ethoxylate + glycol ether + fatty acids                           | Aqua-Wet        | EC    | L6204    |                                           | 900 g/L                     |
|                        | buffering system + alkyl polyglucoside                                    | Aqua-Right 7    | EC    | L6895    |                                           | 381 + 86 g/L                |
|                        | organic acid and alkali                                                   | Aquabuff        | EC    | L5451    | Villa Crop Protection (Pty) Ltd           | 660 g/L                     |
|                        | modified vegetable oil and other ingredients                              | MasterLock      | EC    | L10496   |                                           | 889 g/L                     |
| Nematodes              | fenamiphos                                                                | Nemacur 100 GR  | GR    | L2056    | Villa Crop Protection (Pty) Ltd           | 100 g/kg                    |
|                        | furfural                                                                  | Crop Guard      | EC    | L6864    | Illovo Sugar Ltd                          | 900 g/L                     |
| Plant growth regulator | paclobutrazol                                                             | Avocet          | SC    | L7368    | Villa Crop Protection (Pty) Ltd           | 250 g/L                     |
|                        |                                                                           | Cultar          | SC    | L3693    | Syngenta South Africa (Pty) Ltd           | 250 g/L                     |

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, SL - Soluble concentrate, SC - Suspension concentrate, WG - Water-dispersible granule.

## Maximum Residue Limit (MRL in mg/kg) summary for registered active ingredients on pecan nuts in South Africa



Active ingredients listed are registered under Act 36 of 1947 for use on pecan nuts in South Africa against specific targets.

| Active ingredient                                   | South Africa | Canada | China | Codex | Europe | South Korea | USA  |
|-----------------------------------------------------|--------------|--------|-------|-------|--------|-------------|------|
| (e)-8-dodecenyl acetate                             | Not required | 0.1    | -     | -     | 0.01   | -           | -    |
| (z)-8-dodecenyl acetate                             | Not required | 0.1    | -     | -     | 0.01   | -           | -    |
| abamectin                                           | -            | 0.01   | -     | 0.005 | 0.01   | 0.01        | 0.01 |
| <b>acephate</b>                                     | <b>0.02</b>  | 0.1    | -     | -     | 0.02   | 0.1         | 0.02 |
| <b>acetamiprid</b>                                  | <b>0.1</b>   | 0.1    | 0.06  | 0.06  | 0.07   | 0.06        | 0.1  |
| alpha-cypermethrin                                  | -            | 0.05   | -     | 0.05  | 0.05   | -           | 0.05 |
| azoxystrobin                                        | 0.01         | 0.02   | 0.01  | 0.01  | 0.01   | 0.01        | 0.02 |
| <i>Bacillus thuringiensis</i> kurstaki (strain sb4) | Not required | -      | -     | -     | -      | -           | -    |
| <i>Beauveria bassiana</i>                           | Not required | 0.1    | -     | -     | -      | -           | -    |
| beta-cyfluthrin                                     | -            | 0.1    | -     | -     | 0.02   | 0.01        | 0.01 |
| <b>bifenthrin</b>                                   | <b>0.05</b>  | 0.1    | 0.05  | 0.05  | 0.05   | 0.05        | 0.05 |
| boscalid                                            | 1            | 0.7    | 0.05  | 0.05  | 0.05   | 0.05        | 0.7  |
| carbaryl                                            | -            | 1      | -     | 1     | 0.02   | 0.5         | 0.1  |
| carfentrazone-ethyl                                 | -            | 0.1    | -     | -     | 0.05   | -           | 0.1  |
| chlorantraniliprole                                 | 0.1          | 0.02   | 0.02  | 0.02  | 0.05   | 0.02        | 0.02 |
| <b>chlorothalonil</b>                               | <b>0.01</b>  | 0.1    | -     | -     | 0.01   | 0.01        | -    |
| chlorpyrifos                                        | -            | 0.1    | -     | 0.05  | 0.01   | 0.05        | 0.2  |
| cycloxydim                                          | -            | 0.1    | -     | -     | 0.05   | -           | -    |
| cyprodinil                                          | 1            | 0.1    | -     | 0.04  | 0.04   | 0.01        | 0.04 |
| difenoconazole                                      | 0.01         | 0.03   | 0.03  | 0.03  | 0.05   | 0.01        | 0.03 |
| diquat                                              | -            | 0.1    | -     | -     | 0.02   | 0.01        | 0.02 |
| diuron                                              | -            | 0.1    | -     | -     | 0.02   | 0.1         | 0.05 |
| e/z-8-dodecenol                                     | -            | 0.1    | -     | -     | -      | -           | -    |
| emamectin benzoate                                  | 0.01         | 0.1    | -     | 0.001 | 0.01   | 0.01        | 0.02 |
| fenamiphos                                          | 0.05         | 0.1    | -     | -     | 0.02   | 0.01        | -    |
| fentin hydroxide                                    | -            | 0.1    | -     | -     | 0.05   | -           | -    |
| fluaizifop-p-butyl                                  | 0.05         | 0.05   | 0.01  | 0.01  | 0.01   | -           | 0.05 |
| fludioxonil                                         | 0.5          | 0.1    | -     | -     | 0.01   | 0.01        | -    |
| furfural (aldehyde)                                 | -            | 0.1    | -     | -     | 1      | -           | -    |
| <i>Glomus iranicum</i> var. tenuihypharum           | Not required | -      | -     | -     | -      | -           | -    |
| glufosinate-ammonium                                | -            | 0.5    | 0.01  | 0.1   | 0.1    | 0.1         | 0.5  |
| glyphosate                                          | -            | 0.1    | -     | -     | 0.1    | 1           | 1    |
| <i>Helicoverpa armigera</i> nucleopolyhedrovirus    | Not required | 0.1    | -     | -     | -      | -           | -    |
| imidacloprid                                        | -            | 0.05   | 0.01  | 0.01  | 0.05   | 0.01        | 0.05 |
| <b>indaziflam</b>                                   | <b>0.01</b>  | 0.01   | -     | -     | 0.01   | 0.01        | 0.01 |
| indoxacarb                                          | -            | 0.1    | -     | -     | 0.02   | 0.01        | 0.08 |
| lambda-cyhalothrin                                  | 0.1          | 0.05   | 0.01  | 0.01  | 0.01   | 0.5         | 0.05 |
| <i>Metarhizium anisopliae</i>                       | Not required | 0.01   | -     | -     | 0.01   | -           | -    |
| <b>methoxyfenozide</b>                              | <b>3</b>     | 0.1    | -     | 0.1   | 0.1    | 0.09        | 0.1  |
| <b>novaluron</b>                                    | <b>0.01</b>  | 0.1    | -     | -     | 0.01   | 0.01        | -    |
| paclobutrazol                                       | 0.05         | 0.1    | -     | -     | 0.01   | 0.01        | -    |
| paraquat                                            | -            | 0.1    | 0.05  | 0.05  | 0.02   | 0.01        | 0.05 |
| pirimicarb                                          | 0.05         | 0.1    | -     | -     | 0.02   | 0.05        | -    |
| polyether-polymethylsiloxane-copolymer              | Not required | 0.1    | -     | -     | -      | -           | -    |
| potassium bicarbonate                               | Not required | 0.1    | -     | -     | -      | -           | -    |

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|----------------------------------------------|--------------|--------|-------|-------|--------|-------------|-------|
| <b>propiconazole</b>                         | <b>0.05</b>  | 0.1    | 0.02  | 0.02  | 0.01   | 0.05        | 0.1   |
| pymetrozine                                  | 0.02         | 0.02   | -     | -     | 0.02   | 0.01        | 0.02  |
| pyraclostrobin                               | 0.02         | 0.04   | -     | 0.02  | 0.02   | 0.02        | 0.04  |
| spinetoram                                   | 0.01         | 0.02   | -     | 0.01  | 0.02   | 0.01        | 0.1   |
| sterilised <i>Thaumatotibia leucotreta</i>   | Not required | -      | -     | -     | -      | -           | -     |
| <b>sulfoxaflor</b>                           | <b>0.02</b>  | 0.015  | -     | 0.03  | 0.02   | 0.02        | 0.015 |
| terpenic polymer                             | -            | 0.1    | -     | -     | -      | -           | -     |
| <i>Thaumatotibia leucotreta</i> granulovirus | Not required | 0.1    | -     | -     | 0.01   | -           | -     |
| thiamethoxam                                 | -            | 0.02   | 0.02  | 0.01  | 0.02   | 0.01        | 0.02  |
| <i>Trichoderma asperellum</i>                | Not required | -      | -     | -     | -      | -           | -     |
| trifluralin                                  | -            | 0.1    | -     | -     | 0.01   | 0.05        | 0.05  |

**MRL lists updated according to the Amendment to the Regulations Governing the Maximum Limits for Pesticide Residues that may be Present in Foodstuffs Amendment No. 4388 of 16 February 2024.**