



Dear Tree Nut Working Group Members

**RE: Product lists, maximum residue levels (MRLs) and progress updates: most recent activities listed first**

#### **October 2022:**

List addition: Chimera 240 SC against false codling moth on Almonds, Hazelnuts, Pistachios, Pecan nuts and Macadamias.

We have a **confirmed** in person meeting on the **27<sup>th</sup> of October** from **10:00 – 12:00** at the Department of Health to try and find a way to **solve problems** regarding:

- MRLs which have already been proposed and confirmed on tree nuts need to be gazetted by DoH. No time frame was coupled to this, but Jonathan Mudzunga said that this will be addressed.
- Product actives registered for use on Tree Nuts in SA by DALRRD Act 36 that do not appear on the lists used by PPECB during inspections, leading to rejections at port and major problems.
- Registered actives for use on Tree Nuts in SA without a set SA MRL (information were supplied, no feedback received yet).

DoH (Aluwani Madzivhandila) & DALRRD (Mr. Billy Makhafola PA) will be present.

DALRRD: Salamina Maelane forwarded the request to the office of DFSQA and DAIC PA's to inform the responsible Directors of the meeting.

PPECB: Extended the invitation to Natasha Wentzel and her colleagues to emphasise the importance of the meeting.

IRAC meeting 7 October 2022 feedback:

Abamectin and emamectin benzoate resistance statements were finalized and have been sent to the registrar to incorporate the resistance warning on the labels. There has not been any feedback from the registrar.

Dr Schalk Schoeman let the meeting know about the outbreaks of Macadamia Felted Coccid and shot-hole borer and the lack of registration for its control. Human-based transfer of the pest between farms might be a problem and the meeting suggested that we formulate a protocol to prevent spreading the felted coccid.

Substances of concern: formal list requested from IRAC Chairperson.

#### **September 2022:**

Attended the Feedback Session for Codex Committee on Pesticide Residues (CCPR53) – updated TNWG Codex MRLs according to the DDPR53 working document. International Convention status updates of

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banned, discontinued etc. actives added per active ingredient to PPP and MRL lists. Acetamiprid: Codex Maximum Residue Limit for Pesticide (CXL) (as adopted by Codex Alimentarius Commission (CAC)) agreed to advance the proposed MRLs for pistachio nuts and tree nuts (group) as Recommended by the 2021 Joint FAO/WHO Meeting on Pesticide Residues (JMPR) to 1 ppm for Pistachio nuts.

#### **August 2022:**

Annual general meeting held on 31 August 2022. Agenda and minutes of the meeting were circulated along with possible date for urgent meetings to resolve pressing issues.

#### **July 2022:**

Completed WHO classes from the original source.

#### **June 2022:**

Busy with WHO classes (verifying against labels) – update VLOOKUP accordingly from an WHO source, many discrepancies between there categories and SA label categories – not sure why.

Double-checking all actives, targets, MRLs (adding “Not required”) & PHIs (adding “Not applicable”).

#### **May 2022:**

New additions:

- Bolt 240 SC (L11215) against false codling moth on all TNWG tree nuts.
- Sharda Trif 480 EC (L10885) against broadleaf- and grass weeds on macadamia and pecan nuts.
- Pygar 932 (L7146) & Kangroshield 100 (L7630) after minor formulation changes.

#### **April 2022:**

Only Vitex 50 and Proclaim appears on Agri-Intel list of registered products with active ingredient emamectin benzoate. Added to the lists are registered product labels: Emma L9022 on almonds, macadamia and pecan) and Conflict granule L11195 on almonds, hazelnuts, macadamias, pecans, pistachios and walnuts. Unregistered: Laeveld Agrochem supplies Promec 20 EW that is not yet registered on tree nuts. WARLOCK® 19.2 EC by Adama has a 19.2 g/L active and is also not registered on tree nuts.

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The recommendation on the product label of Emma is to apply with Alice 20 SP (registered), while the recommendation on the product label of Conflict granule is to apply with Magnitude 200 SP (not registered). I am following up on this issue.

#### March 2022:

Almonds PPP list heading updated.

Received MRL communication from Agri-Intel (14/03/2022) via email. Each active verified. List of actives with no MRL information on macadamia:

|                             |
|-----------------------------|
| ABAMECTIN [SYN. AVERMECTIN] |
| CARBARYL                    |
| CARFENTHAZONE-ETHYL         |
| CYCLOXYDIM                  |
| DIQUAT                      |
| DIURON                      |
| ETHEPHON                    |
| FURFURAL                    |
| GAMMA-CYHALOTHRIN           |
| GLUFOSINATE-AMMONIUM        |
| GLYPHOSATE                  |
| IMIDACLOPRID                |
| INDOXACARB                  |
| PARAQUAT                    |
| PERMETHRIN                  |
| PROPICONAZOLE               |
| TAU-FLUVALINATE             |
| THIAMETHOXAM                |
| TRIFLURALIN                 |

#### February 2022:

- **MRL filter updates:**  
**Last update date:**
  - South Africa: 13-12-2021
  - EU: 14-02-2022
  - United States of America: 08-02-2022
  - Russia: 15-09-2017

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- Codex: 14-10-2021
- Canada: 14-02-2022
  - **Macadamia:**
    - EU: spinetoram MRL changed to 0.02
  - **Pecan nuts:**
    - Canada: *Metarhizium anisopliae* MRL changed to 0.01.
    - EU: spinetoram MRL changed to 0.02
- **Almonds:**
  - EU: spinetoram MRL changed to 0.02
- **Hazelnuts:**
  - EU: spinetoram MRL changed to 0.02
- **Pistachios:**
  - EU: spinetoram MRL changed to 0.02
- **Walnuts:**
  - EU: spinetoram MRL changed to 0.02

#### PPP filter updates

- **Macadamias:**
  - **Fungicides:**
    - Added Leaf spot as a target to Dimension 325 SC.
- **Pecan nuts:**
  - **Herbicides:**
    - Added Noxious weeds as a target to Scat 360 SL.
    - Added Sedges as a target to Gramoxone.
  - **Fungicides:**
    - Added Leaf spot as a target to Dimension 325 SC.
- **Almonds:**
  - **Fungicides:**
    - Added Leaf spot as a target to Dimension 325 SC.

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- **Hazelnuts:**
- No changes.
  
- **Pistachios:**
  - **Fungicides:**
    - Added Leaf spot as a target to Dimension 325 SC.
  
- **Walnuts:**
  - No changes

#### January 2022:

- **MRL filter updates:**
  - **Macadamia:**
    - Added *Glomus iranicum* var. *tenuihypharum* no set MRL.
    - Added sterilised *Thaumatotibia leucotreta* [syn. sterilised False codling moth], no set MRL.
    - SA, Chlorothalonil MRL changed to 0.01.
    - EU *Metarhizium anisopliae* MRL changed to 0.01, Canada 0.1.
  - **Pecan nuts:**
    - Added *Glomus iranicum* var. *tenuihypharum* no set MRL.
    - Added potassium bicarbonate [syn. potassium hydrogen carbonate], no set MRL.
    - SA, Chlorothalonil MRL changed to 0.01.
    - SA, pyrethrin extract MRL changed to 1.
    - EU *Metarhizium anisopliae* MRL changed to 0.01 and Canada 0.1.
    - Codex imidacloprid MRL changed to 0.01.
    - Canada acephate MRL Changed to 0.1.
  - **Walnuts:**
    - Added *Glomus iranicum* var. *tenuihypharum* no set MRL.
    - SA, pyrethrin extract MRL changed to 1.
    - Added pymetrozine, SA MRL 0.02.
    - SA, pyrethrin extract MRL changed to 1.
    - EU *Metarhizium anisopliae* MRL changed to 0.01 and Canada 0.1.
  - **Pistachios:**
    - Added *Glomus iranicum* var. *tenuihypharum* no set MRL.
    - SA, Chlorothalonil MRL changed to 0.01.
    - EU *Metarhizium anisopliae* MRL changed to 0.01 and Canada 0.1.

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- Codex azoxystrobin MRL Changed to 1.
- Canada acephate changed to 0.1.
- **Almonds:**
  - Added *Glomus iranicum* var. *tenuihypharum* no set MRL.
  - Added abamectin [syn. avermectin].
  - Added propiconazole.
  - Canada acephate MRL changed to 0.1.
  - Codex acetamiprid MRL changed to 0.06.
  - Codex bifenthrin MRL changed to 0.05.
  - Russia bifenthrin changed to 15.
  - EU carfentrazone-ethyl changed to 0.05.
  - Codex chlorantraniliprole changed to 0.02.
  - SA chlorothalonil changed to 0.01.
  - Codex chlorpyrifos changed to 0.05.
  - Codex difenoconazole changed to 0.03.
  - Codex emamectin benzoate changed to 0.001.
  - Codex glufosinate-ammonium changed to 0.1.
  - EU *Metarhizium anisopliae* MRL changed to 0.01 and Canada 0.1.
  - Codex organosilicone changed 0.1.
  - Codex pyraclostrobin changed to 0.02.
  - Codex pyrethrin extract changed to 0.5.
  - Codex spinetoram changed to 0.01.
  - Russia spinetoram changed to 0.01.
- **Almonds:**
  - Added *Glomus iranicum* var. *tenuihypharum* no set MRL.
  - Codex acephate changed to 0.1.
  - SA chlorothalonil changed to 0.01.
  - EU *Metarhizium anisopliae* MRL changed to 0.01 and Canada 0.1.
- **Hazelnuts:**
  - Added *Glomus iranicum* var. *tenuihypharum* no set MRL.
  - Codex acephate changed to 0.1.
  - SA chlorothalonil changed to 0.01.
  - EU *Metarhizium anisopliae* MRL changed to 0.01 and Canada 0.1.

- **PPP filter updates:**

- **Almonds:**

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- **Insecticides:**
    - Removed Kannar Pygar 932 as a product used for Bollworm.
  - **Herbicides:**
    - Added Grass weeds as a target to Makhro Glyphosate 360 SL.
    - Glyphosate WSG removed.
  
  - **Fungicides:**
    - Corrections to Dimension 325 SC on database.
  
  - **Hazelnuts:**
    - **Insecticides:**
      - Removed Kannar Pygar 932 as a product used for Bollworm.
    - **Herbicides:**
      - Added Grass weeds as a target to Nirvana.
      - Added Grass weeds as a target to Silent.
      - Added Grass weeds as a target to TumbleWeed.
      - Added Grass weeds as a target to Sharda Paraquat 200 SL.
  
  - **Macadamias:**
    - **Insecticides:**
      - Banded fruit weevil and Bollworm were added to the targets list of Fastac EC.
      - Removed Kannar Pygar 932 as a product used for Bollworm.
      - False codling moth was added to the list of registered targets of Ampligo
    - **Herbicides:**
      - Added Sedges as a target to Preeglone.
      - Added Sedges as a target to Dynamo 800 SC.
      - Added Sedges as a target to FarmAg Diuron 800 WG.
      - Added Sedges as a target to Bounty SL.
      - Added Sedges as a target of Gramoxone.
      - Added Sedges as a target of Scorch.
      - Removed Yellow nutsedge as a target of Farmex.
      - Removed Broadleaf weeds as a target of Fusilade Forte.
      - Removed Broadleaf weeds as a target of Glynox 540 SL.
      - Removed Sedges weeds as a target of Piranha 360 SL.
      - Removed Sedges weeds as a target of Piranha 510 SL.
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- Removed Sedges weeds as a target of Piranha Dry.
  - Removed Shiquat 200 SL.
  - Corrected dosage of Propin 250 EC to 50 ml/100L.
  - **Fungicides:**
    - Corrections to Dimension 325 SC on database.
    - Added Revert SC to database.
    - Added a comment to the list that listed targets are not necessarily major macadamia pathogens.
  - **Pecan nuts:**
    - **Insecticides:**
      - Removed Fastac EC.
      - Removed Bollworm as a target of Kannar Pygar 932.
    - **Herbicides:**
      - Added Sedges as a target to Preeglone
      - Added Sedges as a target to Dynamo 800 SC.
      - Added Sedges as a target to FarmAg Diuron 800 WG.
      - Added Sedges as a target to Coller 200 SL
      - Removed Yellow nutsedge as a target of Farmex.
      - Removed Broadleaf weeds as a target of fluazifop-P-butyl.
      - Removed Broadleaf weeds as a target of Glynex 540 SL.
      - Removed Noxious weeds as a target of Roundup Turbo.
      - Removed Noxious weeds as a target of Scat 360 SL.
      - Removed Sedges weeds as a target of Harpoon 200 SL
      - Removed Sedges weeds as a target of Makhro Paraquat.
      - Removed Sedges weeds as a target of Paraquat SL.
      - Removed Sedges weeds as a target of Remquat 200 SL.
      - Removed Sedges weeds as a target of Scorcher.
    - **Fungicides:**
      - Corrections to Dimension 325 SC on database.
      - Added Revert SC to database.
  - **Pistachios:**
    - **Insecticides:**
      - Removed Bollworm as a target of Kannar Pygar 932.
      - Added Carob moth as a target for Ampligo.
      - Added Litchi moth as a target for Ampligo.
    - **Fungicides:**
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- Added Kannar Kanguard 940.
- Corrections to Dimension 325 SC on database.
- **Herbicides:**
  - Added Grass weeds as a target to Basta.
  - Added Grass weeds as a target to Glufos 200 SL.
  - Added Grass weeds as a target to Nirvana.
  - Added Grass weeds as a target to Silent.
  - Added Grass weeds as a target to Enviro Glyphosate 360.
  - Added Grass weeds as a target to Sharda Paraquat 200 SL.
- **Walnuts:**
  - **Insecticides:**
    - Removed Bollworm as a target of Kannar Pygar 932.
    - Removed Fastac EC.
  - **Herbicides:**
    - Added Broadleaf weeds as a target to Erase 360 SL.

#### November 2021:

- **MRL filter updates:**
- **South Africa:**
  - Acetamiprid MRL changed to 0.1 (All tree nuts updated).
  - Carfentrazone-ethyl PHI changed to 120 (Macadamias, Pecan and Almonds).
  - Difenconazole PHI changed to 45 (All tree nuts updated).
  - tau-fluvalinate MRL changed to 0.01.
  - Trichoderma asperellum added no MRL or PHI (All tree nuts updated).
  - Metarhizium anisopliae added no MRL or PHI (All tree nuts updated).
- **Canada:**
  - alpha-cypermethrin changed to 0.05 (All tree nuts updated).
  - Trichoderma asperellum added no MRL or PHI (All tree nuts updated).
  - Metarhizium anisopliae added no MRL 0.1.
- **Codex:**
  - Indaziflam added No MRL or PHI (Macadamia and Pecan).
  - Trichoderma asperellum added no MRL or PHI (All tree nuts updated).
  - Metarhizium anisopliae added no MRL or PHI (All tree nuts updated).

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- **EU:**

- Trichoderma asperellum added no MRL or PHI (All tree nuts updated).
- Metarhizium anisopliae added no MRL 0.01.

- **Russia:**

- Indaziflam added No MRL or PHI (Macadamia and Pecan).
- Trichoderma asperellum added no MRL or PHI (All tree nuts updated).
- Metarhizium anisopliae added no MRL or PHI (All tree nuts updated).

- **USA:**

- Trichoderma asperellum added no MRL or PHI (All tree nuts updated).
- Metarhizium anisopliae added no MRL or PHI (All tree nuts updated).

The following products were removed from the PPP lists. Suppliers were contacted regarding the registration of these products.

- **Walnuts:**

|             |    |        |
|-------------|----|--------|
| Orthene 75  | SP | L0190  |
| Cryptogran  | SC | L7598  |
| Karate Zeon | CS | L6330  |
| Wetcit Duo  | EC | L10448 |
| Orosorb Duo | EC | L10462 |
| Gramoxone   | SL | L1174  |

- **Pistachios**

|             |    |        |
|-------------|----|--------|
| Fastac      | SC | L4992  |
| Fastac      | EC | L4991  |
| Cryptogran  | SC | L7598  |
| Karate Zeon | CS | L6330  |
| Wetcit Duo  | EC | L10448 |
| Emma        | WG | L9022  |
| Orosorb Duo | EC | L10462 |

- **Hazelnuts**

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|             |    |        |
|-------------|----|--------|
| Cryptogran  | SC | L7598  |
| Wetcit Duo  | EC | L10448 |
| Emma        | WG | L9022  |
| Orosorb Duo | EC | L10462 |
| Fastac      | EC | L4991  |

- **Almonds**

|                  |     |        |
|------------------|-----|--------|
| Glyphogan 360 SL |     | L5393  |
| Mamba 360        | SL  | L4817  |
| Mamba DMA 480 SL |     | L8388  |
| Mamba Max 480 SL |     | L7714  |
| Orosorb Duo      | EC  | L10462 |
| Gramoxone        | SL  | L1174  |
| Glyphosate       | WSG | L7119  |
| Cryptogran       | SC  | L7598  |
| Emma             | WG  | L9022  |
| Fastac           | SC  | L4992  |
| Fastac           | EC  | L4991  |

- **Macadamia**

|                     |     |        |
|---------------------|-----|--------|
| Glyphogan 360 SL    |     | L5393  |
| Mamba 360           | SL  | L4817  |
| Mamba DMA 480 SL    |     | L8388  |
| Mamba Max 480 SL    |     | L7714  |
| Orosorb Duo         | EC  | L10462 |
| Ag-Cypermethrin 200 | EC  | L8491  |
| Ag-Diuron 800       | SC  | L7952  |
| Ag-Lambda 50        | EC  | L8472  |
| Emma                | WG  | L9022  |
| Glyphosate          | WSG | L7119  |
| Roundup Max         | SG  | L6790  |

- **Pecan**

|                   |  |        |
|-------------------|--|--------|
| Mamba DMA 480 SL  |  | L8388  |
| Mamba Max 480 SL  |  | L7714  |
| Nexus Paraquat SL |  | L8085  |
| Orosorb Duo       |  | L10462 |

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|                  |    |       |
|------------------|----|-------|
| Ag-Diuron 800 SC |    | L7952 |
| Karate Zeon      | CS | L6330 |
| Emma             | WG | L9022 |

- Break-Thru, Charge, Supawett and Techniwet Super were added to Walnuts PPP list.
- Journey 500 WG were added to Almond PPP list.
- Real Trichoderma added to PPP list for all Tree nuts.
- Template for Comments - Proposed MRLs Working Document 2021:  
Documents were sent to Aluwani at DOH for additions of MRL's missing on DOH's MRL list.

#### October 2021:

##### MRL filter update:

- Pecan nuts: acetamiprid SA MRL level changed to 0.1.
- Carfentrazone-ethyl [syn. carfentrazone] EU: MRL level changed to 0.05.
- Active added: Metarhizium anisopliae, no set MRL.

##### PPP filter update:

- Pecan nuts plant protection products added:
  - Kannar KangroShield 100
  - Kannar Pygar 932
  - Avocet
  - Agroquat
  - Paraquat 200 SL
  - Skoffel 145 SL
  - Skoffel 200 Super
  - Emma
  - Bound 200 SL
  - Cryptogran

#### EU Updates:

- **fluopyram** MRL levels changed from 0.05 to 0.03 for all tree nuts (information received from Omnitrade doc 20211022).

- **diclofop-m**, MRL levels changed from 0.05 to 0.02 for all tree nuts (Limit of analytical determination) (Information received from Official Journal of the European Union doc 202110222).
- **terbuthylazine**, MRL levels changed from 0.05 to 0.01 for all tree nuts (Limit of analytical determination) (Information received from Official Journal of the European Union doc 202110222).

## September 2021:

**China update:** date updated according to FAS China Staff.

- Last Update date: 24 August 2021
- fluazifop-p-butyl changed Macadamia MRL to 0.01
  - Added Pecan nuts MRL 0.01
  - Added Walnut MRL 0.01
- imidacloprid changed Macadamia MRL to 0.01
- pyraclostrobin changed Macadamia MRL to 0.02
  - Pistachios added MRL 1
- Propiconazole
  - Added Hazelnuts MRL 0.05
- glufosinate-ammonium Macadamia MRL updated to 0.01
- pyrethrin extract list indicates nuts, Macadamia MRL updated 0.5
- boscalid macadamia MRL updated to 0.05
  - Pistachios added MRL 1
- Phosalone Hazelnut not listed as registered
- Fenhexamid Macadamia added MRL 0.01 list refers to nuts
- emamectin benzoate Macadamia MRL updated to 0.001 list refers to nuts
- methiocarb Hazelnuts added MRL 0.05
- methoxyfenozide Macadamia MRL updated 0.1 list refers to nuts
- bifentazate added Almonds, Hazelnuts, Macadamia, Pecan nuts, Pistachios, Walnuts MRL 0.2
- bifenthrin Macadamia MRL updated 0.05 list refers to nuts
- spirotetramat added Almonds, Hazelnuts, Macadamia, Pecan nuts, Pistachios, Walnuts MRL 0.5
- fenarimol Pecan nuts added MRL 0.02
- permethrin Pistachios added MRL 0.05
- beta-cypermethrin added Almonds, Hazelnuts, Macadamia, Pecan nuts, Pistachios, Walnuts MRL 0.5
- cypermethrin added Almonds, Hazelnuts, Macadamia, Pecan nuts, Pistachios, Walnuts MRL 0.5
- azoxystrobin Macadamia added MRL 0.01 List refers to nuts.
  - Pistachios added MRL 1
- clothianidin removed Macadamia- not listed as registered.
  - Added Pecan nuts MRL 0.01
- thiacloprid added Almonds, Hazelnuts, Macadamia, Pecan nuts, Pistachios, Walnuts MRL 0.02
- thiamethoxam Macadamia not listed as registered
  - Pecan nuts added MRL 0.02

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- hexythiazox added Almonds, Hazelnuts, Macadamia, Pecan nuts, Pistachios, Walnuts MRL 0.05
  - clofentezine added Almonds, Hazelnuts, Macadamia, Pecan nuts, Pistachios, Walnuts MRL 0.5
  - tebuconazole added Almonds, Hazelnuts, Macadamia, Pecan nuts, Pistachios, Walnuts MRL 0.05
  - deltamethrin added Hazelnuts and Pecan nuts MRL 0.02
  - ethephon removed Macadamia not listed as resisted
    - Added Walnuts MRL 0.5 and Hazelnuts MRL 0.2
  - chlordane added Almonds, Hazelnuts, Macadamia, Pecan nuts, Pistachios, Walnuts MRL 0.02
- 
- Added adjuvants: Orosorb Duo & Wetcit Duo to the lists (all crops specified on label).

#### August 2021:

- Minor editorial corrections to PPP lists (implication: filter).
- EU specifies tree nuts as: Almonds, Brazil nuts, Cashews, Chestnuts, Coconuts, Macadamia, Hazelnuts, Pecan, Pine nuts, Pistachio, Walnuts.
- Which Countries to take off the MRL list?
- Should we include GB?
- Last Updated Dates:
  - USA: 05/08/2020
  - RSA: 17/08/2021
  - Canada: 28/06/2021
  - Codex: 16/01/2020
  - EU: 03/08/2021
  - Russia: 15/09/2017
- Updated list per update ingredient of Macadamia MRL's notes:
  - Abamectin
    - EU approved: 30/04/2022 expiry date
    - CODEX: 0.005 at or about the 'Level of Detection' for tree nuts
    - SA: Label specifies tree nuts, hence the active is listed for all tree nuts
    - Japan: 0.01 'Other Nuts'
    - Russia: Almond 0.01, 12/08/2021. Pecans: refer to CODEX
  - Acephate
    - L-number: Stink bug – 4175 (Ace), MNB – 0190 (Orthene)
    - Orthene: Walnuts added Label indicates 'Tree nuts'
    - PHI – 35
    - EU-status: Not approved

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- Canada: Default MRL
- Japan: No MRL indicated
- Acetameprid
  - Alice and Wonderland added.
  - USA: Almonds - Comment added.
  - EU: Approved for all.
  - Canada: Black Walnuts, English Walnut.
- Bifenthrin
  - Proposed MRL Tree nuts: 0.05 – Not yet published by DOH
  - USA: Almond hulls 2mg/kg
  - EU: Status - Not Approved (13/04/2021)
  - Canada: Default MRL 0.1mg/kg
- Novaluron
  - EU-status Not Approved
  - Proposed MRL Tree nuts 0.01 - Not yet published by DOH
  - USA: Pecan, Hazelnuts, Almonds, Macadamias - No set MRL
  - EU-status: Not Approved (13/04/2021).
  - Canada: Default MRL 0.1
  - CODEX: No set MRL
- Alpha-cypermethrin
  - Alphathrin: Fastac EC Label listed 'Macadamia including Other nuts';
  - Fastac SC: Added for bollworm, banded fruit weevil and stink bug. Include Almonds and Pistachio
  - DOH: DALRRD list not up to date
  - Comment added 'No set MRL'
  - USA: Not listed (only Pecan), Registered – YES;
  - EU: Not Approved according to EU online database (17/05/2021), EU Expiration Date Hazelnuts: 31/10/2026.
  - Japan: not listed, Comment added - 'Other nuts' 0.2ppm, No set MRL.
  - Canada: No set MRL according to their database. MRL 0.05 as Cypermethrin
- Azoxystrobin
  - Dimension 325 SC added on MRL for Almond, Macadamia, Pecan nuts and Pistachios. Targets updated. PHI's updated. PHI for Pecan nuts not indicated on Label, adopted according to Amistar Top.
  - Amistar Top: PHI's updated.
  - USA: EU-status approved
  - EU Approved – Pistachios Expiration Date 31/12/2024



- CODEX: Almond hulls - 7mg/kg, Tree nut - 0.01mg/kg
- Difenconazole
  - Dimension 325 SC added on MRL for Almond, Macadamia, Pecan nuts and Pistachios. Targets updated. PHI's updated. PHI for Pecan nuts not indicated on Label, adopted according to Amistar Top.
  - EU: LOD – YES
- Beauveria Bassiana
  - MRL not required for EU
  - Broadband: Strain added PPRI 5339
  - No Withholding period applicable
  - USA: Exemption from tolerance
  - EU: No MRL required
  - Canada: Default MRL 0.1mg/kg
  - Japan: Not on their database.
  - Russia: Not subject to tolerance
- Beta-cyfluthrin
  - No MRL set on Pecan
  - No PHI indicated on label for Pecan nuts
  - EU: Not approved
  - Canada: Default MRL 0.1mg/kg
- Beta-cypermethrin
  - EU: LOD – YES
  - Canada: LOD 0.05mg/kg
- Boscalid
  - EU: Expiration date 31/07/2021
  - EU-status: Approved
- Pyrethrin extract
  - CODEX: Hulls 0.2mg/kg
  - USA: Exemption of tolerance. Comment: Macadamia MRL was 1 (linked to pyrethrins) – took off
- Garlic Juice Extract
  - EU: No MRL required
  - EU-status: Approved
  - GB: no MRL required
- Piperonyl Butoxide
  - EU: Not yet Assessed, synergist. No MRL applicable (for all Tree Nut Crops)
  - USA: Exemption of tolerance.

- Carfentrazone-ethyl
  - Grainwatch 400 WDG added to MRRL filter on Macadamias, Pecan nuts and almonds
  - EU Approval status: EU approval expiration 31/07/2023 for Almonds, Macadamia and Pecans
  - EU MRL changed to 0,05mg/kg for Almonds, Macadamia and Pecans
- Chlorantraniliprole
  - Litchi moth and Carob moth added to Pistachios targets (Ampligo)
  - EU Approval status: EU approval expiration 31/12/2024 for Almonds, Macadamia and Pecans, Hazelnuts, Pistachios and Walnuts
- Chlorothalonil
  - Bravo 720: Stone fruit added as target: Almonds, Hazelnut, Macadamia, Pecans, Pistachios. No set MRL.
  - Canada: Default MRL
  - CODEX: No MRL indicated for Almonds
  - EU-Status: Not Approved
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
  - USA: Almond hulls 1ppm
- Chlorpyrifos
  - SA: Dursban 750 WG: Not registered.
  - SA: Lascar 500 EC: Added to Macadamias.
  - EU-status: Not approved for all tree nuts.
  - EU: MRL 0.01ppm for all tree nuts
  - USA: Almond Hulls 12mg/kg, No set MRL for Macadamias and Pistachios
- Cypermethrin
  - SA: Lascar 500 EC: Added to Macadamias.
  - Sipermetrien: PHI 30 added
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Chlothianidin
  - Canada: Default MRL
  - EU-status: Not approved
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Cycloxydim
  - SA: No updates
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Cyprodinil
  - SA: Journey 500 WG added to Almonds

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- CODEX: Almond hulls MRL 0.05mg/kg
- EU: Hazelnuts and Pecan nuts MRL 0.04mg/kg. Expiration date: 30/04/2022 for tree nuts
- Russia: Almond in shell 0.05mg/kg, Almonds 0.02mg/kg. No MRL indicated for Macadamia, Pistachio, Pecan nuts and Hazelnuts. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- USA: Almonds 0.02mg/kg, Almond hulls 8mg/kg
- Carbaryl
  - Canada: Macadamia and Pecan nuts – MRL Nuts shelled 1 mg/kg, Nuts whole in shell 10 mg/kg
  - EU-Status: Not approved
- Diquat
  - EU-status: Not approved
  - Russia: No MRL indicated for Macadamia and Pecan nuts. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Dioron
  - EU-Status: Not Approved
- E/Z-8-dodecenol
  - Russia: No MRL indicated for Tree nuts. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
  - USA: Exemption from tolerance
- Emamectin benzoate
  - SA: Target added to Pecan
  - Emma removed – Not registered in SA
  - EU: Expiration date: 30/11/2024
  - Russia: No MRL indicated for Tree nuts. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
  - USA: Almond hulls 0.2mg/kg.
- Esfenvalerate
  - EU: Expiration date: 31/12/2022
  - EU: LOD on Macadamias
  - Russia: No MRL indicated for Tree nuts. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Ethepon
  - EU: Expiration date: 31/07/2022
  - Russia: No MRL indicated for Tree nuts. Refer to CODEX MRL, if no CODEX MRL use MRL for SA

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- Fluazifop-P-butyl
  - CODEX: Added - Macadamias MRL 0.01 mg/kg.
  - Expiration date 31/12/2023
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Furfural (Aldehyde)
  - SA: Added 'Aldehyde' to active ingredient name.
  - Canada: Default MRL of 0.1mg/kg for Almonds, Pecan nuts, Macadamias, Hazelnuts, Pistachios, Walnuts.
  - CODEX: No MRL indicated for all tree nuts
  - EU-status: Not approved
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Gamma-cyhalothrin
  - Expiration date 31/03/2025
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Glufosinate-ammonium
  - Coller 200 SL, Lifeline, Bound 200 SL, Brass 200 SL and Knersus 200 SL: added to all tree nuts
  - Canada: MRL updated to 0.5mg/kg on all tree nuts
  - EU-status: Not approved
  - Russia: Almond in shell 0.5mg/kg
  - USA: Macadamias, Hazelnuts, Pecan nuts, walnuts and Almonds changed to 0.5mg/kg
- Glyphosate
  - Glyphogan Plus (L10700), Pirana 360 SL 8877, Glynox 540 SL (SL 10937) added to Pecans
  - Expiration date: 15/12/2022
  - EU-status: Approved, LOD
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Helicoverpa armigera nucleopolyhedrovirus
  - EU: Expiration date: 31/05/2023
  - EU-status: Approved
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
  - USA: Exemption from tolerance
- Imidacloprid
  - Imidor 350 SC and Imirod 350 SC: PHI added to Macadamias
  - Codex: Almond hulls: 5mg/kg
  - EU-status: Not approved, LOD - YES

- Russia: No MRL indicated for Hazelnuts and Pistachios. Refer to CODEX MRL, if no CODEX MRL use MRL for SA. Macadamias added to Russia
- USA: Almond hulls: 4mg/kg
- Indaziflam
  - Alion (L10791) added to Macadamias and Pecan nuts. Proposed MRL 0.01mg/kg as by BAYER and DOH
  - USA: Almond hulls: 0.15mg/kg as stated on their database.
- Indoxacarb
  - EU-status: Approved, LOD – YES
  - USA: Almond hulls: 8mg/kg. MRL updated 0.08 for all tree nuts.
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Lambda-cyhalothrin
  - Targets added for Ampligo on Almonds, Macadamias, Pecan nuts, Walnuts, Pistachios.
  - Karate Zeon added to Macadamias, PHI of 14 days
  - CODEX: Almond hulls: 2mg/kg
  - EU: Approved
  - EU: Expiration date: 31/03/2023, LOD - YES
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
  - USA: Almond hulls: 1.5mg/kg
- Methoxyfenozide
  - Advisor 240 SC (L10550) and Assessor 240 EC (L10349) added to all tree nuts.
  - 3mg/kg proposed MRL and confirmed, not yet published
  - EU: Expiration date: 31/03/2026
  - EU-status: Approved
  - CODEX: Almond hulls: 50mg/kg
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
  - USA: Almond hulls: 25mg/kg
- Organic Plant acids
  - No updates
- Paclobutrazol
  - EU: MRL updated 0.01mg/kg for all tree nuts, LOD – YES
  - EU: Expiration date: 31/05/2023
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Paraquat
  - EU-status: Not approved, LOD – YES

- USA: Almond hulls: 0.05mg/kg
- CODEX: Almond hulls: 0.01mg/kg. Almond hulls = LOD – YES
- Permethrin
  - No withholding period applicable
  - CODEX: Pistachios: LOD – YES
  - EU-status: Not approved. LOD - YES
- Japan: Walnuts and pecan nuts: No withholding period applicable as on database
  - USA: Almond hulls: 20mg/kg
- Polyether-polymethylsiloxane-copolymer
  - No updates
- Propiconazole
  - Japan: Pecan nuts MRL 0.02mg/kg; LOD – YES
  - EU-status: Not approved, LOD – YES
  - EU: 0.01 mg/kg as of 02/09/2021
  - USA: Almond hulls 7mg/kg
  - CODEX: Added Macadamias
  - Russia: No MRL indicated for tree nuts except for Pecan nuts (0.02mg/kg). Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Pymetrozine
  - SA: Cranium 500 WGD added to Macadamias
  - Japan: Default MRL taken out, Pecan stays 0.02mg/kg
  - EU-status: Not approved
  - EU: Hazelnuts and Walnuts, 0.02mg/kg applicable from 02/09/2021
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Pyraclostrobin
  - SA: No updates
  - EU-status: Approved.
  - EU: All except Pistachios LOD – YES
  - Russia: Almond hulls: 7mg/kg
- Spinetoram
  - SA: No updates
  - EU: Expiration date: 30/09/2024
  - EU: LOD – YES
  - USA: Almond hull: 19mg/kg
- Sulfoxaflor
  - SA: Proposed MRL 0.02mg/kg. Not yet published



- CODEX: MRL 0.03mg/kg added to all 'Tree nuts'
- EU: LOD - YES
- EU: Expiration date: 18/08/2025
- Japan: LOD – YES
- USA: Almond hulls: 6mg/kg
- Tau fluvalinate
  - EU-status: Approved, LOD - YES
  - EU: Expiration date: 31/08/2024
  - Japan: No MRL indicated as on database
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Terpenic Polymer
  - SA: No updates
- Thaumatotibia (False Codling Moth Granulovirus)
  - Canada and EU: Default MRL 0.01mg/kg
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Thiamethoxam
  - SA: No MRL set for Macadamias and Pecan nuts (DoH)
  - SA: Pinacle 240 SC added for Macadamias
  - Canada: All food crops listed other than items
  - CODEX: Almonds MRL removed, Pecans LOD – YES
  - EU-status: Not approved, LOD – YES
  - USA: Almond hulls 1.2mg/kg.
  - Japan: 'Other Nuts' MRL 0.02mg/kg, excluding Pecan nuts
  - Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- Trifluralin
  - SA: Makhrotref 480 EC removed from list – Not registered
  - EU-status: Not approved, LOD – YES
- (E)-7-Dodecenyl Acetate
  - No updates
  - No withholding Period applicable
- (E)-8-Dodecenyl Acetate
  - SA: Isomate FCM (L7692) added to all 'Tree nut'
  - SA: No withholding period applicable
  - SA: Check-Mate FCM-F and Last call F.C.M. added to Macadamias
  - EU: Expiration date: 31/08/2021
  - EU-status: Approved



- Russia: No MRL indicated. Refer to CODEX MRL, if no CODEX MRL use MRL for SA
- (Z)-8-Dodecenyl Acetate
  - No withholding period applicable
  - Check-Mate FCM-F added to all 'Tree nuts'
  - EU-status: Approved, Default MRL
  - EU: Expiration date: 31/05/2021

## July 2021:

- Updated list of MRL's (Macadamias) notes:
  - New registrations
    - Indaziflam
- Updated list of MRL's (Pecan nuts) notes:
  - New registrations
    - Indaziflam
- Team view meeting SA POSITION JOINT FAO/WHO FOOD STANDARDS PROGRAMME

## CODEX COMMITTEE ON PESTICIDES RESIDUES

- The meeting went well and was very informative, a lot of actives were discussed and how there MRL's would change for some crops, a lot of these actives mentioned in this document are not yet registered in South Africa. Listed below are the actives that held changes in regard to Tree nuts.
  - Afidopyropen -Tree nuts, Group of (0.01), (Not registered in SA)
  - Buprofezin -Group of tree nuts (0.05), Almond hulls (3), Almond (W) (Registered in SA but not on tree nuts)
  - Cyclaniliprole -Almonds (0.03), Almond hulls (6), (Not registered in SA)
  - Fluensulfone- Tree nuts, Group of (0.025), Almond hulls 7 (dw) (Not registered in SA)
  - Metconazole- Tree nuts, Group of (0.04) (Not registered in SA)
  - Fenazaquin - Almond hulls 4 (dw), Tree nuts, Group of (0.02) (Registered in SA but not on tree nuts)
  - Mesotrione - Tree nuts Group of (0.01), Almond hulls 0.04 (dw) (Registered in SA but not on tree nuts)
- Updated list of products (Macadamias) notes:
  - New registrations
    - Alion –Herbicide

- Updated list of products (Pecan nuts) notes:
  - New registrations
    - Alion -Herbicide

MRL lists updated according to list received from Department of Health (DoH).

Furthermore, lists verified against EU-Approval status revisions: If the EU do not accept the active ingredient to be used in the EU, then, if registered in the country of origin (i.e. South Africa) the product may be sprayed according to the SA label with no detectable residues at harvest.

- Beta-cyfluthrin (registered as Bulldock Beta 125 SC) – Active not approved in EU: SA MRL & EU MRL = 0.02ppm (LOD)
- Acephate (registered as Ace 750 SP and Orthene 75 SP) – Active not approved in EU: SA MRL & EU MRL = 0.02ppm (LOD)
- Pymetrozine (registered as Chess and Trivia 500 WDG) – Active not approved in EU: SA MRL & EU MRL = 0.02ppm (LOD)

## June 2021:

- Updated list of products (Macadamias) notes:
  - Communication received from River Bioscience (Pty) Ltd regarding product information that needed to be corrected, following corrections made.

| Problem            | Group                 | Active ingredient                                 | Group code | Trade name   | Form. | Reg. no. | Company                    | Active quantity                          | Dosage      | PHI |
|--------------------|-----------------------|---------------------------------------------------|------------|--------------|-------|----------|----------------------------|------------------------------------------|-------------|-----|
| Bollworm           | Microbial insecticide | Helicoverpa armigera nucleopolyhedrovirus         | -          | Helicovir    | SC    | L9543    | River Bioscience (Pty) Ltd | 5x10 <sup>9</sup> occlusion bodies/ml    | 12 ml/100 L | 0   |
| False Codling Moth | Microbial insecticide | Cryptophlebia leucotreta granulovirus             | -          | Cryptogran   | SC    | L7598    | River Bioscience (Pty) Ltd | 5 x 10 <sup>10</sup> occlusion bodies/ml | 10 ml/100 L | 0   |
| False Codling Moth | Pheromones            | (e)-8-dodecenyl acetate + (z)-8-dodecenyl acetate | -          | RB Splat FCM | PA    | L10259   | River Bioscience (Pty) Ltd | 30 g/kg                                  | 1000 g/ha   | 0   |

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## May 2021:

- Updated list of products (Macadamias) notes:
  - New registrations: The following products were added to the list although they do not yet appear on Agri-Intel. Their label information states that they are registered on macadamias/tree nuts. Awaiting proposed MRL's from suppliers.
    - Adjuvants
      - Velocity Super
      - Villa 51
      - Wen51
      - AMS-Super
      - Class Act NG
      - Interlock
      - Interlock
      - Interlock
      - Summit Super
      - Velocity Drymax
      - AMS-Granule
      - Benefit Plus
    - Insecticides
      - Wonderland 200 SP
      - Trivia 500 WGD
      - Cranium 500 WGD
      - Assessor 240 SC
      - Advisor 240 SC
    - Herbicides
      - Slash High-Load 600 SL
      - Brass 200 SL
      - Bound 200 SL
      - Lynch 360 SL
      - Lynch 710 SG
      - Lynch Turbo 450 SL
- Updated list of products (Macadamias) notes:

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- New registrations
  - Herbicide-Sedges
    - Piranha Dry
    - Piranha 360 SL
    - Piranha 510
  - Fungicides
    - Dimension 325 SC
  - Insecticides
    - Lascar 500 EC
    - Cohort 240 SC
- Removed registrations
  - Dursban (Product has lapsed)

March 2021:

- Updated list of products (Almonds) notes:
  - New registrations
    - GraTham
    - Propin 250 EC
  - Removed registrations
    - Ortiva
    - M.N.B. PheroLure
    - Wonderland 200 SP
    - Kannar KangroShield 100
    - Kannar Pygar 932
    - Emma
    - Cryptogran
    - Karate Zeon
    - Bounty 500 WSG
    - Slash High-Load 600 SL
    - Scorcher
    - Protect
- Updated list of products (Walnuts) notes:

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- New registrations
  - GraTham
  - Propin 250 EC
- Removed registrations
  - F.C.M. PheroLure
  - BioLure CM
  - Chempac BioLure CM-10X
  - M.N.B. PheroLure
  - Wonderland 200 SP
  - Ortiva
  - Protect
  - BeTaPro™
  - Bolldex®
  - Graboll
  - Kannar KangroShield 100
  - Kannar Pygar 932
  - Cryptogran
  - Karate Zeon
  - Gramoxone
  - Scorcher
- Updated list of products (Pistachios) notes:
  - New registrations
    - GraTham
    - Propin 250 EC
    -
  - Removed registrations
    - Ortiva
    - F.C.M. PheroLure
    - BioLure CM
    - Chempac BioLure CM-10X
    - M.N.B. PheroLure
    - Wonderland 200 SP
    - Ortiva
    - Bolldex®
    - Ortiva

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- 
- Protect
  - Graboll
  - Kannar KangroShield 100
  - Kannar Pygar 932
  - Scorcher
- Updated list of products (Hazelnuts) notes:
    - New registrations
      - Propin 250 EC
      - GraTham
    - Removed registrations
      - Kannar KangroShield 100
      - Kannar Pygar 932
      - Ortiva
      - Bolldex®
      - Graboll
      - Chempac BioLure CM-10X
      - BioLure CM
      - F.C.M. PheroLure
      - Cryptogran
      - M.N.B. PheroLure
      - Wonderland 200 SP
      - Protect
- Updated list of products (pecan) notes:
    - New registrations
      - GraTham
      - Propin
    - Removed registrations
      - M.N.B PheroLure
      - Skoffel 145 SL
      - Skoffel 200 Super
      - Bounty 500 WSG
      - Kannar KangroShield 100
      - Kannar Pygar 932
- 

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- 
- Graboll
  - Bolldex®
  - BioLure CM
  - Chempac BioLure CM-10X
  - F.C.M. PheroLure
  - Ortiva
  - BeTaPro™
  - Diuron 800 WP
  - Wonderland 200 SP
  - Slash High-Load 600 SL
  - Bounty 500 WSG
  - Glyphosate WSG
  - Nexus Glyphosate 360
  - Emma
  - Magnum Super SC
  - Tsunami 100
  - Fury 10 EW
  - Makhrotref 480 EC
  - Protect
- 
- MRL clarity between PPECB, DAFF & Tree Nut Working Group.
  - Updated list of products (macadamia) notes:
    - New registrations
      - Imirod 350 SC
      - GraTham
      - Propin
    - Removed registrations
      - Bounty 500 WSG
      - Kannar KangroShield 100
      - Kannar Pygar 932
      - Graboll
      - Bolldex®
      - BioLure CM
      - Chempac BioLure CM-10X
      - F.C.M. PheroLure
      - Ortiva
- 

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- BeTaPro™
- Diuron 800 WP
- Wonderland 200 SP
- Slash High-Load 600 SL
- Bounty 500 WSG
- Glyphosate WSG
- Nexus Glyphosate 360
- Emma
- Magnum Super SC
- Tsunami 100
- Fury 10 EW
- Makhrotref 480 EC
- Protect

Last Quarter of 2020 & first quarter of 2021:

- Substantial PPP list updates.

July 2020:

Hazelnuts MRL list amended with PHI. Updates done to the following MRLs: acetamiprid; alpha-cypermethrin; *Bacillus thuringiensis* spp. kurstaki (strain SB4); *Beauveria bassiana*; bifenthrin; canola oil; chlorantraniliprole; copper oxychloride; cuprous oxide; difenoconazole; E/Z-8-dodecenol; furfural (aldehyde); garlic juice extract; glufosinate-ammonium; glyphosate; *Helicoverpa armigera* nucleopolyhedrovirus; indoxacarb; lambda-cyhalothrin; methoxyfenozide; novaluron; organic plant acids; paraquat; piperonyl butoxide; polyether-polymethylsiloxane-copolymer; propiconazole; pymetrozine; pyrethrin extract; spinetoram; sulfoxaflor [syn. isoclast];

June 2020:

Pecan MRL actives only list and PHI completed.

May 2020:

Agri SA - Act 36 of 1947 - Virtual workshop feedback:

After the minor crops workshop in 2018 hosted by the Department of Agriculture, Forestry and Fisheries (DAFF), the tree nut working group was established to speak as a collective. A critical needs list was circulated

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and provided to the Act 36 registrar's office. Crop grouping questions arrived and were also posed to the office. To date, we've not had any replied from this office amidst sending several letters motivating for minor crop registrations and clarity on crop groupings.

Agri SA had constructive engagements with the South African Animal Health Association (SAAHA) and Croplife on challenges and opportunities related to Act 36 of 1947 as well as the efficiency of the Registrar's office. The backlog at the Registrar's office is several months behind and this is having a serious impact on the competitiveness of the agricultural sector. Both parties indicated that a collaborative approach with the Register's Office would be the best route to resolve this issue.

Agri SA facilitated a workshop on the 26<sup>th</sup> of May 2020 where affected industries virtually discussed a joint strategy on the way forward. We first identified the problems and then discussed solutions. During the problem statement discussions, main concerns included the following:

- more than 3000 dossiers are on backlog at the Act 36 registration office,
- DAFF does not have the right resources, probably due to no implementation of the OSD (not paying for scarce skills at an industry-related level because the OSD does not fall into the moratorium for new appointments),
- the function of the Registrar needs to be seriously considered and clarified, and,
- we have to approach the Registrar as a collective, otherwise these issues will not be resolved.

A fundamental new regulatory system is needed. The example of Kenya's system was raised where dossiers are given to specialists to evaluate, and decisions are made on the recommendations of the specialists. A self-regulating system might be a solution, and it was proposed that the private sector regulate the applications and DAFF audited the registration process. The idea of external moderators was discussed. Also, the use of an online registration system. To get an online system in place, the end-goal must be defined and kept in mind. No bureaucracy can be tolerated. It was suggested that the current Agricultural Inputs Forum (probably to be renamed in future) drive the actions going forward. The forum shall be inclusive, and information (and standards) must be transparent. AgriSA shall only facilitate, leverage and provide expertise. In conclusion, Omri van Zyl stated: "collectively we have the knowledge to fix the problem". AgriSA will assist by

1. unpacking the strategy and focussing the current forum on an operational strategy,
2. providing expertise on the work stream,
3. add the technological aspect and specific recommendations,
4. benchmarking (finding out what we do not know) and
5. provide regular feedback.

Main contributing persons: Omri van Zyl, Yolanda Andrag, Rob Bell, Pieter Haumann, Lindi Benic, Labious Masike, Noëlene Odendaal, Derek Donkin.

#### USA MRL Questions:

The search for the answer to this question continued: “If there are no set MRLs for an active ingredient, e.g. paclobutrazol on pecan nuts in the USA, which MRL should be adhere to? USA MRLs are established by the USA Environmental Protection Agency (EPA), under the USA Code of Federal Regulations (CFR) for pesticide tolerances (40 CFR 180), and the USA Food and Drug Administration (FDA) is primarily responsible for testing and enforcement.

The USA EPA has not established an MRL for paclobutrazol on pecan nuts. If residues are detected, the product could be at risk of violation or denied entry into the USA.

The BCGlobal Pesticide MRLs database coordinator was contacted directly and indicated that the MRL is set at the lowest level of analytical detection (LOD) if this information is provided in the country's MRL standard. BCGlobal do not currently indicate if the USA MRL for paclobutrazol is set at the LOD, as this information is not provided in the 40 CFR 180. They recommended us contacting the USA FDA directly for further information on LODs. This was done and we are awaiting a formal reply from the USA FDA. What was found on the FDA online reference material was: “What is a no-tolerance violation in the APR? A no-tolerance violation is when a pesticide chemical residue is detected, quantified and confirmed in a commodity for which EPA has not established a tolerance or tolerance exemption for that particular pesticide/commodity combination.” Again, this refers back to a LOD. The definition for “Zero tolerance” according to the USA FDA standards was researched and summarized as: A zero tolerance means that no amount of the pesticide chemical may remain on the raw agricultural commodity when it is offered for shipment. A zero tolerance for a pesticide chemical in or on a raw agricultural commodity may be established because, among other reasons: (a) A safe level of the pesticide chemical in the diet of two different species of warm-blooded animals has not been reliably determined. (b) The chemical is carcinogenic to or has other alarming physiological effects upon one or more of the species of the test animals used, when fed in the diet of such animals. (c) The pesticide chemical is toxic, but is normally used at times when, or in such manner that, fruit, vegetables, or other raw agricultural commodities will not bear or contain it. (d) All residue of the pesticide chemical is normally removed through good agricultural practice such as washing or brushing or through weathering or other changes in the chemical itself, prior to introduction of the raw agricultural commodity into interstate commerce. It becomes evident that the reason for the zero tolerance of paclobutrazol residues might be ascribed to points (a) or (d) above.

April 2020:

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Update of EU MRL of Chlorpyrifos from 0.05 to 0.01 ppm (lower limit of detection). Chlorpyrifos is registered on macadamia against stink bug, thrips, mealy bug and aphids. The three products used in this industry are Dursban 750 WG, Pyrinex 250 CS and Cyperfos 500 EC. Pyrinex 250 CS is registered against stink bug, thrips and aphids on almonds, hazelnuts, pecan nuts and pistachios. At the meeting of the Standing Committee on Plants, Animals, Food and Feed (PAFF) on 17-18 February 2020, the draft Regulation reducing the maximum residue levels (MRLs) for chlorpyrifos and chlorpyrifos-methyl was adopted. According to this draft regulation, the maximum levels for all types of goods are to be reduced not only to the respective analytical determination limit, but also to the general standard value of 0.01 mg/kg. In view of the serious health concerns identified by EFSA, the Committee agreed that it is not possible to establish MRLs on the basis of a risk assessment and therefore all MRLs must be lowered to the limit of determination. For the same reason, no additional transitional measures can be provided for products manufactured in or imported into the EU before the regulation enters into force. It should be noted that the draft regulation will not lead to immediate disruption of trade, as the new MRLs are not expected to be published before October 2020. The Regulation shall apply from 3 months after publication.

EU authorization for the pesticide **mancozeb** is due to expire on 31/01/2021. In order to prevent our products from being contaminated with this pesticide, we urgently request that its use during the current cultivation phase in 2020 should already be discontinued.

March 2020:

- EU commission updates (received 18 March 2020):
  - Non-renewal of the approval of the active substance thiacloprid, Regulation (EU) 2020/23 of 13 January 2020
  - Non-renewal of the approval of the active substance chlorpyrifos-methyl, Regulation (EU) 2020/17 of 10 January 2020
  - Non-renewal of the approval of the active substance chlorpyrifos, Regulation (EU) 2020/18 of 10 January 2020
  - Extension of the approval periods of the active substances Regulation (EU) 2020/421 :
    - Abamectin,
    - *Bacillus subtilis* (Cohn 1872) strain QST 713,
    - *Bacillus thuringiensis* subsp. Aizawai strains ABTS-1857 and GC-91,
    - *Bacillus thuringiensis* subsp. Israeliensis (serotype H-14) strain AM65-52,
    - *Bacillus thuringiensis* subsp. Kurstaki strains ABTS 351, PB 54, SA 11, SA12 and EG 2348,
    - *Beauveria bassiana* strains ATCC 74040 and GHA,
    - clodinafop,

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- clopyralid,
  - *Cydia pomonella* Granulovirus (CpGV),
  - cyprodinil,
  - dichlorprop-P,
  - fenpyroximate,
  - fosetyl,
  - *Lecanicillium muscarium* (formerly '*Verticillium lecanii*') strain Ve6,
  - mepanipyrim,
  - *Metarhizium anisopliae* (var. *anisopliae*) strain BIPESCO 5/F52,
  - metconazole,
  - metrafenone,
  - *Phlebiopsis gigantea* strains FOC PG 410.3, VRA 1835 and VRA 1984,
  - pirimicarb,
  - *Pseudomonas chlororaphis* strain MA342,
  - pyrimethanil,
  - *Pythium oligandrum* M1,
  - rimsulfuron,
  - spinosad,
  - *Streptomyces* K61 (formerly '*S. griseoviridis*'),
  - *Trichoderma asperellum* (formerly '*T. harzianum*') strains ICC012, T25 and TV1,
  - *Trichoderma atroviride* (formerly '*T. harzianum*') strains IMI 206040 and T11,
  - *Trichoderma gamsii* (formerly '*T. viride*') strain ICC080,
  - *Trichoderma harzianum* strains T-22 and ITEM 908,
  - triclopyr,
  - trinexapac,
  - triticonazole and
  - ziram.
- Feedback from the IRAC meeting (13 March 2020):
    - A formal letter needs to be submitted by the Chairperson of IRAC to the Registrar which contains proof of resistance (ideally a published paper) before the registrar will consider emergency registrations for alternatives if there are not any available.
      - Dr Schalk Schoeman presented on resistance issues in subtropical fruit and macadamia orchards. Mango bark beetle (*Hypocryphalus mangiferae*) is associated with mango and macadamia wilt. The beetle is in Pakistan and South Africa. Mangos are burnt upon death to try and contain the beetle spread.
      - Bark beetles in general is on the increase. No Polyphagous Shot Hole Borer (PSHB) have been found on macadamias yet. Beetle incidences are almost always associated



with tree stress (usually observed after harvest, May – October. We suspect the bark beetle problems to decrease when we go into a wetter climatic cycle. Hopefully the drought that lasted about 5 years is over.

- Tomato semi-looper (*Chrysodeixis acuta*) on banana in KwaZulu-Natal is becoming a problem. Typical 'shot-gun' feeding marks are evident on the leaves. The problem is that the looper feeds on the banana skin and this results to up to 30% losses in Class 1 & 2 sales. The damage is cosmetic only.
  - Banana bunchy top virus is transmitted by the banana aphid (*Pentalonia nigronervosa*). Infection does not lead to banana death, but unproductive plants. Entomopathogenic fungi (EPF) and imidacloprid should be used to control for aphids and hence, this virus.
  - On avocado and macadamia, false codling moth (FCM) is becoming a worrying pest. Prevalence is high on Pinkerton and Maluma Hass cultivars. Mating disruption did not work effectively in controlling FCM. There are a few viable reasons for this. Pest numbers are picking up from January onward, with damage prevalent from end of February. Anthracnose is a secondary problem associated with larval feeding damage. In untreated avocado orchards in Tanzania and Northern Mozambique, > 50% of the crop is lost due to FCM. The problem is that this pest adapts to new diet easily. There is however currently no proof of it completing its life cycle in avocado. More worrying is the fact that we are dealing with many other Lepidopteran pests. A detailed sampling process and DNA sequencing has to be done to identify variation in species causing damage on avocado.
  - Thrips on avocado and macadamia is a major issue. Resistance is expected in macadamia orchards due to the vast use of pyrethroids on this crop against stink bugs. The problem on avocado is escalated when macadamia is planted in close proximity.
  - The macadamia feltid coccid (MFC) has been detected in fourteen commercial macadamia orchards in and around Nelspruit. There are associated fungal infections that kills the trees over a very short time. Mark Wright and Schalk is in the process of importing natural parasitoids from Hawaii. PPRI already have a small colony of the parasitoids. Local parasitoids have been found but occurs in very low numbers. The preferred cultivar is 816. Beaumont is also a susceptible cultivar, but numbers are not nearly as high as on 816.
- Feedback from the PSHB Steering Committee meeting (4 March 2020):
    - CropWatch is a registered surveying service provider. Their involvements in updates on the status of PSHB is important. FABI has updated the status information on their website.
    - There is a research network on PSHB and valuable information from this network is available to the steering committee.



- Macadamias and Pecan nuts are not reproductive hosts of PSHB.
- The main concern is currently around wood and nursery trees begin transported from one province to another.
- Chemical companies are still encouraged to apply for the permit to conduct research with the purpose of collecting data and can also apply with the registrar for the emergency registration which can still be considered by the registrar in terms of Act 36 of 1947: Emergency registration is still open- companies can still apply.
- An import permit is required for the unregistered products in South Africa.
- It was reported that cultural practice is the only effective way of control while still waiting for chemicals to be registered.
- Biological control methods through natural enemies were another method reported promising, however the method is not yet registered. Furthermore, there are two biological controls reported that are on trial and they are very much effective. Bio-pesticides requires registrations while the classic biocontrol does not require registration.
- The Registrar is processing dossiers for phosphonate-based products for soil application against *Phytophthora* spp.
- Non-Renewal of imidacloprid for crop protection uses in the EU: Letter of confirmation received from Bayer. The current EU approval for imidacloprid will expire on 31 July 2022 with a deadline of 31 January 2020 to submit for renewal. Bayer will not renew their application for use of imidacloprid nor thiodicloprid in the EU. This means that the product uses (registrations) will be discontinued on products exported to the EU.

#### February 2020:

- DAFF published an ammendment on the regulation governing the South African maximum limits for pesticide residues (MRLs) present in foodstuffs on 19 February 2020. 'Tree nuts' means almonds, cashews, chestnuts, hazelnuts, macadamia nuts, pecans, pistachio nuts, walnuts, coconuts, Brazil nuts and pine nuts. Some concerns were raised after its publication on MRL accuracy, since lately submitted MRL applications were not updated in the published lists. An updated list needs to be published by the Department of Health (DoH), and probably will be. Note that the following SA MRLs were set for Tree nuts: azoxystrobin (0.01ppm: not registered on hazelnuts and walnuts), boscalid (1ppm), chlorantraniliprole (0.1ppm), cyprodinil (1ppm: updated from 0.5, not registered on walnuts), difenoconazole (0.01ppm), emamectin benzoate (0.01ppm: not registered on hazelnuts, pistachios and walnuts), lambda-cyhalothrin (0.1ppm: updated from 0.01 on macadamia, not registered on hazelnuts), metalaxyl-M (0.5ppm: not registered on tree nuts), pymetrozine (0.02ppm), pyraclostrobin (0.02ppm: not registered on walnuts), spinetoram (0.01ppm), aldicarb (0.05ppm:

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macadamias and pecan nuts, prohibited since 2016), endosulfan (0.05ppm: macadamias, prohibited since 2012).

- Product filter updated.
- MRL filter updated.
- Received notice that the EU tolerance will not be renewed for Thiocloprid and Imidacloprid – with the effect that many of the registered products will most likely not be available for much longer.
- Registration Motivation submitted to the Registrar of Act 36 with two specific requests: 1.) Expand the registration of NemaCur 100 GR to the tree nuts and 2.) Register Crop Guard L6864 and Crop Guard 80 L9253 (furfural) as contact nematicides against plant parasitic nematodes on tree nuts.

#### January 2020:

- Communicated concerns regarding the backlog at the Registrar's office. We support the constructive engagement with the Registrar's office and would like to be involved in the workshop and initiative driven by Croplife and Agri SA. Meeting to be held in March 2020.
- Contacted Roland from Homologa. Concerns and reasons for discontinuation of Homologa License discussed in detail. Roland responded, agreeing that there are limitations to what Homologa can offer us.
- List with non-registered actives' MRLs completed for Macadamias. Need to add PHI to MRL filter.

#### December 2019:

- Registration needs of Pecan Nuts communicated.
- List with non-registered actives' MRLs completed for Hazelnuts, Pistachios and Walnuts.

#### November 2019:

- List with non-registered actives' MRLs completed for Almonds and Pecan nuts.
- Attended and presented at the SAPPA AGM.
- Registration Motivation against Plant Parasitic Nematodes on Tree Nuts.
- Lambda-cyhalothrin EU MRL update from 0.05 to 0.01.

#### October 2019:

- Wonderland 200 SP (L10057) added to the Insecticide lists.
- SABO Bio-Expo attended and presentation on behalf of the TNWG.
- IRAC meeting attended on behalf of the TNWG.

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#### September 2019:

- Compilation of an MRL list for all non-registered chemicals per commodity is underway. E.g. phosphonate MRLs are often exceeded without a registration for the use of phosphonates on the specific crop. The MRL exists but are not currently listed as only registered actives are listed. The new list will provide a complete list of MRLs only for the top three exporting countries per commodity for all actives not registered currently in SA on the specific commodity.

#### August 2019:

- New registration received against *Fusarium* fungus associated with *Ambrosia* beetles. Registration very broad and not yet listed due to some concerns about efficacy.
- MRL list for pecan nuts updated with active ingredients **Fenamiphos** and **Pirimicarb**.
- Updates to the product filters completed.

#### July 2019:

- Herbicide lists updated after feedback from product suppliers.
- PDFs printed and ready for distribution (saved and shared with all role players via Dropbox. TNWG overview of industries updated and shared on Dropbox.

#### June 2019:

- IRAC group codes added to the product filters.
- Short versions of all MRL lists compiled and shared.
- **China** released a standard for MRLs. Updates were done for **Spinetoram**, registered as Delegate L8392 against various species of Thrips, False Codling Moth and Nut Borer. The MRL is a temporary MRL and set to **0.01**. Other actives affected: Trifloxystrobin – not registered on tree nuts in SA (MRL set to 0.02), Etoxazole – not registered on tree nuts in SA (MRL set to 0.01) and Fenpyroximate not registered on tree nuts in SA (MRL set to 0.05).

#### May 2019:

- An updated draft of the **EU** Regulation with revised **chlorate** MRLs for various food products were received. The updated chlorate MRL for Tree nuts (incl. Almonds, Brazil nuts, Cashew nuts, Coconuts, Hazelnuts/cobnuts, Macadamias, Pecans, Pine nut kernels, Pistachios, Walnuts and two others that are not specified) are **0.1 mg/kg**. Temporary MRLs for chlorate according to the “as low as reasonably achievable” (ALARA) principle are based on the 95<sup>th</sup> percentile of the occurrence data, considering

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the use of legitimately treated drinking water in food processing. The levels are realistically achievable when good manufacturing and hygiene practices are used. The temporary MRLs should be reviewed at the latest within five years of publication of this Regulation in the light of possible developments in the area of hygiene, of drinking water, further progress made by food business operators to bring chlorate levels down, or whenever new information and data become available that would warrant an earlier review.

April 2019:

- **MRL filter** released. Quarterly updates done and lists resent to shortlist to check for correctness.

March 2019:

- The European Commission notified to the World Trade Organisation a draft Commission Regulation proposing to amend MRLs/LODs for the following substances: amitrole, fipronil, flufenoxuron, flupyrsulfuron-methyl, imazosulfuron, isoproturon, orthosulfamuron and triasulfuron in or on certain products.
- Flufenoxuron MRLs were updated for tree nuts, but there are no registrations in SA on this active on tree nuts. Triasulfuron MRLs were also affected. The current EU MRL was 0.05 and is now 0.01, again no registrations exist in SA so no changes to the lists were done.

February 2019:

- Philagro is currently working towards registration of Sumimax for pre-emergence control of mainly broad-leaved weeds in tree nuts. Sumimax is already registered in pome, stone, citrus and vines **for pre-emergence weed control**. They have conducted several trials over two seasons focussing on macadamias but have also conducted one season's trials in pecan nuts. They are also evaluating product concepts combining Sumimax with a pre-emergence grass herbicide and also mixtures with glyphosate if some weeds are already present at application.
- Villa Crop Protection sent an email with a list of products that wasn't on the almonds, macadamia and the pecan nut list of herbicides and found that Slash High-Load 600 SL (L9734) isn't on Agri-intel we downloaded the label from Google and added it to the Dropbox folder. FarmAg Paraquat 200 (L9059) wasn't on Agri-Intel either and the label are now present on Dropbox.

January 2019:

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- Contact list updated and critical needs list re-distributed after updates were received from the Pecan Nut representatives. Critical needs lists feedback from Nulandis & Adama.
- Adama is working on a pre-emergence weed control solution for pecan nuts and Nulandis has a systemic product for bark borer control that may show good results. Awaiting further feedback. Will follow up in 2 weeks.

#### November '18 – December 2018:

- A contact list of companies was compiled with company name, contact name & surname, email and phone number. Product lists were filtered according to Supplier Company and circulated for review, followed by a phone call to discuss the list and working method going forward. Companies were asked to check the lists for correctness and completion. Critical needs lists were also circulated to the contact list of product suppliers.

#### October – November 2018:

- Product lists were compiled after the prescription to Homologa™. Lists were circulated in a PDF format with standard header, organization logo where applicable or provided. Members of the Tree Nut Working Group (TNWG) were asked to review and comment on the list formats and content.

#### Specific List Updates (recent activities first):

1. SA MRL updates for cyprodinil, emamectin benzoate, lambda-cyhalothrin, pymetrozine and spinetoram.
2. Wonderland was added to all Product lists.
3. Shamda 50 EC was added on the MRL and Product lists for macadamia.
4. Spinetoram China MRL updated to 0.01 for all Tree Nuts.
5. Nulandis informed us that there were products missing from the list. Product name: Knersus 200 SL. Registered on Almonds, Hazelnuts, Macadamia nuts, Pecan nuts, Pistachio nuts and Walnuts. Lists & filters updated. Product name: Erase 369 SL. Registered on Almonds, Macadamia nuts, Pecan nuts, Walnuts. Lists & filters updated.
6. Villa crop informed us that there was product missing from the list. Product name: Slash High-Load 600 SL. Registered on Almond, Macadamia and Pecan nuts. Lists & filters updated. Product name: Cranium 500 WDG. Registered on Macadamia. Lists & filters updated.
7. AgriNova informed us that there was product missing from the list. Product name: NovaQuat 200 SL. Registered on Pecan Nuts. Lists & filters updated.
8. BASF informed us that BetaPro is no longer available in the market. All other products is available through their Distributors.

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9. André Broeksma from Bayer forwarded the list to their technical department. Awaiting feedback.
  10. Sarah le Grange from Adama requested a deadline, and the date given to Adama for list verification is Friday 16 November 2018.
  11. Algo-Chem product list verified and updated.
  12. Bayer product notes:
    - a. Basta 200 SL is in the process of been divested to BASF (which means it will be a BASF product in future).
    - b. The active ingredient of Bulldock beta 125 SC was written as Cyfluthrin, it should be beta-Cyfluthrin.
    - c. I noted that some products are on the list by virtue that they can be used in all crops, like Contans WG, Sclerotinia was removed from problem lists.
  13. MRL updates (macadamia):
    - a. Bifenthrin Australia MRL set to 0.03 according to Homologa database. Legislation F2017L00026.
    - b. Clothianidin SA MRL requested from Philagro.
  14. Product registration numbers will be included in all product lists from January 2019.

If you have any questions, please do not hesitate to contact me.

Regards

E Joubert

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