## Citrus Product Range

**South Africa**

Use plant protection products safely and with responsible care. Please always follow the label when applying plant protection products.

<table>
<thead>
<tr>
<th>Product</th>
<th>Withholding Periods</th>
<th>Broadleaf weeds</th>
<th>False Codling Moth (larvae)</th>
<th>Citrus thrips</th>
<th>Mediterranean Fruit fly</th>
<th>Natal Fruit fly</th>
<th>Red Scale</th>
<th>Aphid</th>
<th>Mealy Bug</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aurora® 40 WG</strong></td>
<td>None</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Coragen®</strong></td>
<td>7</td>
<td>X</td>
<td></td>
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</tr>
<tr>
<td><strong>Exirel® 100 SE</strong></td>
<td>7 (Thrips and fruit fly foliar application) 1 (Fruit fly bait application)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
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<tr>
<td><strong>Fyfanon™ 440 EW</strong></td>
<td>7</td>
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<tr>
<td><strong>Rufast® EW</strong></td>
<td>70</td>
<td></td>
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</tr>
</tbody>
</table>

*Use in Limpopo Province only.*

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**Note:**

- **WITHOLDING PERIODS:** Minimum number of days between last application and harvest.
- **X** indicates no withholding period required.
**HERBICIDES**

**AURORA® 40 WG**

**REGISTRATION NO**
L6794, Act No. 36 of 1947

**COMPOSITION**
Carfentrazone – ethyl (Triazolinone) 400 g/kg

**FORMULATION**
A water dispersible granule herbicide for post-emergent control of broadleaved weeds in orchards and other crops as listed.

**HRAC GROUP**
14

**PACKAGING**
12 x 100 g

**WEEDS CONTROLLED**
The following weed species are normally controlled by AURORA® 40 WG used at the recommended rate.

<table>
<thead>
<tr>
<th>COMMON NAME</th>
<th>BOTANICAL NAME</th>
<th>GENERAL INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pimpernel</td>
<td>Anagalis arvensis</td>
<td>Apply AURORA® 40 WG to actively growing weeds and ensure good coverage especially of larger, more mature weeds. Difficult to control annual weeds should be treated in early spring as a pre blossom application. Use a suitable buffer according to label directions where the water is known to be alkaline/hard to obtain an ideal pH of 5. Serious localized or translocated damage may occur if spray or spray drift comes into contact with leaves, fruit and/or immature bark of trees, vines bushes or adjacent non-target crops that are not under treatment.</td>
</tr>
<tr>
<td>Spiny Emex</td>
<td>Emex australis</td>
<td></td>
</tr>
<tr>
<td>Musk Heron’s Bill</td>
<td>Erodium moschatum</td>
<td></td>
</tr>
<tr>
<td>Fumitory</td>
<td>Fumaria muralis</td>
<td></td>
</tr>
<tr>
<td>Small cleaver</td>
<td>Galium spurium</td>
<td></td>
</tr>
<tr>
<td>Small mallow</td>
<td>Malva parviflora</td>
<td></td>
</tr>
<tr>
<td>Small stinkweed</td>
<td>Pentzia suffruticosa</td>
<td></td>
</tr>
<tr>
<td>Four-leaved all seed Wild radish</td>
<td>Polycarpon tetraphylum</td>
<td></td>
</tr>
<tr>
<td>Wild radish</td>
<td>Raphanus raphanistrum</td>
<td></td>
</tr>
</tbody>
</table>

**APPLICATION**

AURORA® 40 WG works only by contact. It is therefore necessary to achieve a good overall coverage of the targeted plant.

<table>
<thead>
<tr>
<th>CROP</th>
<th>DOSAGE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citrus</td>
<td>25 g AURORA® 40 WG + 3 l ROUNDUP®/MAMBA® 360 SL / MAMBA MAX 480SL + surfactant (the addition of a suitable surfactant (Penetrex 0.5% or NPX Humectant 0.25%) will enhance the cosmetic effect and rapidity of action)</td>
<td>Apply as a directed interrow spray for the control of difficult weeds such as Malva parviflora, Conyza bonanensis, Urtica dioica when actively growing (ideal stage when weeds are 10 – 20 cm in height). Shield young trees with immature bark during application or use a covered sprayer. Ensure that contact is avoided on leaves, fruit and bark.</td>
</tr>
</tbody>
</table>
### CORAGEN®

**REGISTRATION NO**  L8529, Act No. 36 of 1947  
**COMPOSITION** Chlorantraniliprole (anthranilic diamide) 200 g/l  
**FORMULATION** A suspension concentrate stomach and contact insecticide for the control of various insect pests on a variety of crops as listed.  
**IRAC GROUP** 28  
**PACKAGING** 10 x 1 litre, 20 x 200 ml  

<table>
<thead>
<tr>
<th>PEST</th>
<th>DOSAGE</th>
<th>REMARKS</th>
</tr>
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</table>
| False Codling Moth (larvae)  
*(Thaumatotibia leucotreta = Cryptoplebia leucotreta)* | 17.5 ml/h spray mixture | Apply CORAGEN® as a full cover application at spray volumes varying between 2000 and a maximum of 8500 litres spray mixture per hectare, depending on the size of the trees and the growth stage of the crop. Proper coverage of fruit is essential for optimal control.  
Always apply CORAGEN® as part of an integrated pest management program (IPM) in citrus. For optimum timing of CORAGEN® applications it is recommended to monitor male moth activities from the beginning of October throughout the growing season in the orchard (or a close by orchard in the case of a mating disrupted orchard).  
Apply CORAGEN® as a preventive application, as soon as the false coding male catches starts increasing during the latter part of the growing season (from about 16 weeks before the intended harvest date). A second CORAGEN® application is recommended at a spray interval of 6 to maximum 8 weeks later.  
When CORAGEN® is used in orchards where the false coding moth activity is not monitored, the first CORAGEN® application should be made 14 to 12 weeks prior to the intended harvest date, followed by a second CORAGEN® application 6 to maximum 8 weeks later.  
If only one CORAGEN® application is to be made for protection in the period close to harvest, apply CORAGEN® 12 to 8 weeks prior to the intended harvest date of the crop. Do not exceed 2 CORAGEN® applications per season in total and do not apply more than 3 litres of CORAGEN® per hectare per season. |

### RUFAST® EW

**REGISTRATION NO**  L6585, Act No. 36 of 1947  
**COMPOSITION** Acrinathrin (norpyrethric ester) 75 g/l  
**FORMULATION** An oil in water emulsion: Stomach and contact acaricide for the control of thrips on citrus.  
**IRAC GROUP** 3  
**PACKAGING** 12 x 1 litre  

<table>
<thead>
<tr>
<th>PEST</th>
<th>DOSAGE</th>
<th>REMARKS</th>
</tr>
</thead>
</table>
| Thrips  
*(Scirtothrips auranti)*  
*(To be used in Limpopo Province only)* | 40 ml/  
100 litre water | Bearing trees: Apply between 90-100% petal drop to just before calyx closure as a single, light cover spray to wet the foliage canopy and fruit uniformly to the point of run-off. If an outbreak of thrips occurs later in the season, use a different insecticide and observe the necessary withholding period.  
Nursery and non-bearing trees: Apply to active new growth to control thrips from damaging leaves. |
**INSECTICIDES**

**EXIREL® 100 SE**

**REGISTRATION NO** L10447, Act No. 36 of 1947

**COMPOSITION** Cyantraniliprole (Anthranilic diamide) 100 g/l

**FORMULATION** A Suspo-emulsion ingestion insecticide for the control of various insect pests on crops as listed.

**IRAC GROUP** 28

**PACKAGING** 10 x 1 l

**PEST** | **DOSAGE/ha** | **REMARKS**
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Citrus thrips (Scirtothrips aurantii) | Light-Medium Foliar Cover Spray: 100 mℓ + 300 mℓ light or medium grade narrow distillation mineral spray oil/100 ℓ spray mixture. | EXIREL® 100 SE applications should commence before closure of the calyx at the end of flowering or when thrip activity is first noticed. These applications should be made as a light – medium foliar cover spray, avoiding run-off (2 - 10 litres per tree depending on tree size), ensuring even coverage. A second application can be made 14 days later depending on re-infestation of thrips. Do not apply more than 2 consecutive applications of EXIREL® 100 SE.

Low Volume Coarse Droplet Bait Application: 75 mℓ + 200 g white sugar/100 ℓ spray mixture | Apply EXIREL® 100 SE before closure of the calyx or when thrip activity is first noticed. Applications should be made as a low volume (1 - 5 litres per tree, depending on tree size), coarse droplet, bait application to the trees ensuring even coverage. A second application can be made 14 days later depending on re-infestation. Do not apply more than 2 consecutive applications of EXIREL® 100 SE.

Mediterranean Fruit fly (Ceratitis capitata) | 75 mℓ/100 ℓ spray mixture (minimum rate of 750 mℓ EXIREL® 100 SE/ha) | Apply as a high volume, full cover application at early stages of pest infestation, typically when adults are trapped and when the crop starts to be attractive for the adults. Make no more than two applications per season at a 7 day interval.

Mediterranean Fruit fly (Ceratitis capitata) | **BAIT APPLICATION RATES** | Application of fruit fly baits. Where possible use custom made rigs or specially adapted equipment for ground applications of Fruit fly bait. These should be made as scattered coarse droplet applications, aimed at the inside leaves of the canopy on the underside of the leaves as this is where fruit flies tend to congregate.

Aerial Application: 100 mℓ/ha + 900 mℓ/ha Hymlure 425 RTU + 1 litre of water/ha (total of 2 ℓ spray mixture per hectare) | Application of fruit fly baits. Where possible use custom made rigs or specially adapted equipment for ground applications of Fruit fly bait. These should be made as scattered coarse droplet applications, aimed at the inside leaves of the canopy on the underside of the leaves as this is where fruit flies tend to congregate.

Make the bait applications to at least one side of each tree in a row (When bait applications are made to rows on both sides of the interrow at the same time, the following interrow can be skipped) The other side(s) of the row(s) should be treated at the next application. Do not apply any other products including adjuvants surfactants and wetters with bait applications of EXIREL® 100 SE.

Applications should be repeated at 7 day intervals. Do not apply more than a total of 5 EXIREL® 100 SE bait applications for control of fruit fly per season. Do not apply more than 3 consecutive applications of EXIREL® 100 SE at a time. Follow this with a “window” of 60 days with applications of an effective registered product with a different mode of action after which 2 consecutive bait applications of EXIREL® 100 SE can be applied again.

For more information please contact: FMC Chemicals (Pty) Ltd
PO Box 44, Postnet Menlyn, Waterkloof Glen, 0181, Republic of South Africa. Tel: +27 12 003 2938.