A contact and stomach insecticide as an insect growth regulant, formulated as a water-dispersible granule, for the control of various insect pests at the larval/nymph stages on crops as indicated.

’n Kontak- en maaginsektdoder as insekgroeireguleerder, geformuleer as ’n wateroplosbare korrel, vir die beheer van verskeie insekplae op die larwale/nimf stadia op gewasse soos aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL
buprofezin (thiadiazin) 500 g/kg  buprofesin (tiadiasien)

IRAC INSECTICIDE GROUP CODE  16  IRAC INSEKDODER GROEPKODE

300 g

Registration holder / Registrasiehouer: Universal Crop Protection (Pty) Ltd.
PO Box / Posbus 801, Kempton Park, 1620  Tel. (011) 396-2233
Website / Webblad: www.villacrop.co.za
**BUROFEZIN 500 WDG**

Reg. No. L 8254 Act/Wet No. 36 of/van 1947

IRAC INSECTICIDE GROUP CODE / IRAC INSEKDODER GROEPSCODE: 16

**ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL:**

buprofezin (thiadiazin) / buprofesin (thiadiasien) ............................................................... 500 g/kg

Registration holder / Registrasiehouer:

**UNIVERSAL CROP PROTECTION (PTY) LTD.**

P.O. Box / Posbus 801
KEMPTON PARK, 1620
Tel. (011) 396 2233

**CAUTION / VERSIGTIG**

**WARNINGS**

Withholding periods:

<table>
<thead>
<tr>
<th>Crops</th>
<th>Withholding Periods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avocados</td>
<td>160 days</td>
</tr>
<tr>
<td>Citrus</td>
<td>45 days</td>
</tr>
</tbody>
</table>

IN THE CASE OF CROPS INTENDED FOR EXPORT, CONFIRM WITHHOLDING PERIODS WITH THE RELEVANT EXPORTING ORGANISATION. IF THIS PRODUCT IS USED ACCORDING TO THE RECOMMENDATIONS ON THIS LABEL, THE LOCAL MRL VALUES WILL NOT BE EXCEEDED. HOWEVER, UNIVERSAL CROP PROTECTION (PTY) LTD. CANNOT ACCEPT RESPONSIBILITY FOR EXPORTED CROPS EXCEEDING THE IMPORT TOLERANCES OF OTHER COUNTRIES.

- Handle with care.
- Poisonous when swallowed, inhaled or absorbed through the skin.
- May cause eye irritation.
- Store in a cool, dry place, away from food, feeds and seed.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.
- Although **BUROFEZIN 500 WDG** is generally regarded as safe for use on most important cultivars, this does not imply that a cultivar, sensitive to **BUROFEZIN 500 WDG** might not be commercialized in the future. Where a new cultivar is to be treated, large areas should not be sprayed without prior small scale testing of **BUROFEZIN 500 WDG** on that cultivar.

**PRECAUTIONS**

- Avoid inhalation of the spray mist.
- Wash with soap and water after use or accidental skin contact.
- Avoid contact with eyes, skin or clothing.
- In case of eye contamination, rinse the eyes thoroughly with plenty of clean water for at least 20 minutes, holding the eyelid(s) open. Obtain medical assistance immediately.
- Wear protective gloves and boots and a face shield when handling the concentrate.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and change of clothing.
- Prevent spray drift onto other crops, grazing, rivers, dams or other areas not under treatment.
• Clean the applicator thoroughly after use and do not pollute the environment with the wash water. Containers and packaging must be emptied completely before being destroyed.
• Rinse the container/bag THREE TIMES with a volume of water equal to a minimum of 10% of that of the container/bag. Add the rinsing to the contents of the mixing tank before destroying the container/bag in the described manner.
• Destroy the empty container/bag by perforation and flattening and dispose of according to local legislation.
• Never re-use the empty container/bag for any other purpose.
• Do not burn the empty container/bag.
• Prevent contamination of food, eating utensils, feeds and drinking water.

USE RESTRICTIONS
• Ensure thorough spray coverage of the tree with Buprofezin 500 WDG, as its biological effectivity depends on the contact of the crawlers with residues of the product, wherever they may move or settle on the tree.
• Commence Buprofezin 500 WDG programmes early in the season on harvested trees due to the following reasons:
  - the tree is easier to penetrate during spraying in the absence of fruit,
  - crawler emergence is most uniform after winter with the onset of warmer weather,
  - potential early crawler movement causing pockmarking on fruitlets is halted.
• The 0.25 to 0.5% narrow range distillation oil additive may possibly have an impact that is variably detrimental on yield, when applied as indicated. In order to minimize this possibility, restrict application to healthy, well-irrigated orchards and do not spray when the temperature exceeds 30 °C. The amount of oil used will be determined by the situation. Consult the registration holder of this product.
• It is a specific requirement to use this treatment in conjunction with effective ant control.

RESISTANCE WARNING
Buprofezin 500 WDG is a group code 16 insecticide. Any insect population may contain individuals naturally resistant to Buprofezin 500 WDG and any other group code 16 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. Buprofezin 500 WDG or any other group code 16 insecticide may not control these resistant insects.
To delay insecticide resistance:
  • avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank mix with products from different insecticide group codes,
  • integrate other control methods (chemical, cultural, biological) into insect control programmes.

For specific information on resistance management contact the registration holder of this product.

DIRECTIONS FOR USE: Use only as directed.
Compatibility:
• The compatibility of Buprofezin 500 WDG with other products may be influenced by various factors. A physical compatibility test must always be performed prior to application of such a tank mixture.
• Buprofezin 500 WDG is compatible with light, narrow range mineral oils, Villa 51 (L 8050) and Latron B-1956 (L 2947).
• When Buprofezin 500 WDG is used in combination with any other agricultural remedy, all WARNINGS, PRECAUTIONS and DIRECTIONS FOR USE mentioned on that label, must be adhered to.

Mixing instructions:
• Pre-mix the required amount of Buprofezin 500 WDG with a small volume of water to create a creamy slurry without lumps.
• Start agitation of the water in the mixing tank.
• Half fill the spray tank with clean water and add this pre-mixed slurry to the tank. Agitate until mixture is well suspended.
• Fill the spray tank to the final volume with water as well as the amount of oil required, or Villa 51 in the case of avocados. Maintain agitation, to ensure thorough mixing of the spray mixture, before commencing application.
• The Latron B-1956 must be mixed separately in a bucket of water and added to the spray tank when it is about 3/4 full.
- Ensure thorough agitation of the spray mixture at all times. Ensure that agitation is resumed for a few minutes before commencement of spraying after normal operational stops (e.g. lunch break).
- Prepared spray mixture must be sprayed immediately and not be left in the spray tank for any length of time, e.g. overnight.

**Application instructions:**
- It is important to calibrate the spraying equipment before application, to ensure application of the correct dosage.
- The sprayer must be in good working order, to ensure even distribution of the spray solution throughout the target area.

**APPLICATION RATES**

<table>
<thead>
<tr>
<th>Crop / Pests</th>
<th>Dosage rate per 100 l water</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Avocados</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heart-shaped scales</td>
<td>30 g PLUS 50 ml Villa 51 (0.05 %)</td>
<td>Apply when heavy infestations of the pest occur on the underside of the leaves. Apply as a high volume, full cover spray just before movement of active 1st generation crawlers commences. This usually occurs at the end of October, when 80% females show distinctive yolk-sacks (80% producing females). <strong>NOTE</strong> Thorough coverage of the inside of the tree canopy is essential.</td>
</tr>
<tr>
<td><strong>Citrus</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mealybugs</td>
<td>30 g PLUS 250 to 500 ml light narrow range distillation oil (0.25 to 0.5 %) PLUS 10 ml Latron B-1956</td>
<td>Apply at first crawler movement when Mealybug infestation occurs. Apply at onset of first crawler movement and before the calyx-end closure. Repeat application 4 weeks later in cases of heavy infestation. <strong>NOTE</strong> If only Mealybug is present (no Red scale), the oil may be omitted.</td>
</tr>
</tbody>
</table>

**NOTE**
- Movement of crawlers may occur during mild winters, under which circumstances immediate application of **Buprofezin 500 WDG** is needed and to be repeated 4 weeks later. Also, crawler movement may occur again late in the season, which can then be controlled by addition of oil to the spray mixture.
- Use pheromone traps to monitor male flight peaks, and do physical inspection for crawler movement, to facilitate the determination of the onset of crawler movement.
- Monitor crawler movement constantly. The infestation pressure will determine the number of applications required.

**LATRON B-1956** is a registered product of / is ’n geregistreerde produk van **Detekto International CC**.

**VILLA 51** is a registered product of / is ’n geregistreerde produk van **Villa Crop Protection (Pty) Ltd**.