

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Insecticide



**BUPROFEZIN 500 WDG**

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

2-10/09/2018-Sept2018

*A contact and stomach insecticide with insect growth regulant activity, 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 maaginsekodder met insekgroeïende eienskappe, geformuleer as 'n wateroplosbare korrel, vir die beheer van verskeie insekplae op die larwale/ nimf stadia op gewasse soos aangedui.*

**ACTIVE INGREDIENT / AKTIEWE BESTANDEEL**

buprofezin (thiadiazin) **500 g/kg** buprofesin (tiadiasien)

IRAC INSECTICIDE GROUP CODE **16** IRAC INSEKODDER GROEPKODE

kg

**villa**

Registration holder / Registrasiehouer:

Universal Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1983/008184/07

PO Box / Posbus 801, Kempton Park, 1620

Tel: 011 396 2233

Website / Webblad: [www.villacrop.co.za](http://www.villacrop.co.za)

**UN Number: 3077**

Willow Set & Print 011 394-4486



**CAUTION  
VERSIGTIG**



GERUJKSAANWYSYNGS INGSLEJIT

**VERWYS NA BESONDERHEDE  
GEDRUK OP HOUER/SAK**

Date formulated:

Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED

**REFER TO DETAILS PRINTED  
ON CONTAINER/BAG**

Batch number:

Lotnummer:

**BUROFEZIN 500 WDG**

Reg. Nr. L 8254 Act/Wet Nr. 36 of/van 1947

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

Registration holder / Registrasiehouer:

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

Co. Reg. No. 1983/008184/07 Mpy. Reg. Nr.

P.O. Box / Posbus 801

KEMPTON PARK, 1620

Tel. (011) 396 2233

**CAUTION / VERSIGTIG****WARNINGS****Withholding periods:**

<b>Allow the following number of days between last application and harvest of the crops listed below:</b>	
Avocados	160 days
Citrus	45 days

**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.
- May be harmful if swallowed, inhaled or absorbed through the skin.
- May cause serious eye irritation.
- Very toxic to aquatic life with long lasting effects.
- Store in a cool, dry place, away from food and 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 **BUPROFEZIN 500 WDG** is generally regarded as safe for use on most important cultivars, this does not imply that a cultivar, sensitive to **BUPROFEZIN 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 **BUPROFEZIN 500 WDG** on that cultivar.

**Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions, because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weeds to the remedy concerned, as well as by the method, time and accuracy of application. The registration holder further does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned, due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in event of any uncertainty.**

**PRECAUTIONS**

- Avoid inhalation of 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 suitable gloves and face protection 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 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 third 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 perforating 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, feed and drinking water.

### **USE RESTRICTIONS**

- **BUPROFEZIN 500 WDG** is active only against juvenile / nymph stages of the target pests. Thus, adults may still be observed following some time after application. Adult populations will decrease over time after application depending on the effect of environmental conditions on the lifecycle of target pests
- 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 impact variably detrimentally 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 **definite 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** and **LATRON B-1956** (L 2947) and **Charge**.
- 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 that 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

<i>Crop / Pests</i>	<i>Dosage rate per 100 ℓ water</i>	<i>Remarks</i>
<b>Avocados</b> Heart-shaped scale	30 g <b>PLUS</b> 50 mℓ <b>Villa 51</b> (0.05 %)	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 commence. This usually occurs at the end of October, when 80 % females show distinctive yolk-sacks (80 % producing females). <b>NOTE</b> Thorough coverage of the inside of the tree canopy is essential.
<b>Citrus</b> Red scale "Green & Orange Situation"	30 g <b>PLUS</b> 250 to 500 mℓ light narrow range distillation oil (0.25 to 0.5 %) <b>PLUS</b> 10 mℓ <b>Latron B-1956</b>	When Red scale is under commercial control and situations where a single application of summer oil on its own, in the period 9 to 11 weeks after 100 % petal fall, will not bring the insect under control. <b>Apply two sprays</b> but it is important to time the first application at the start of specific crawler movement. Repeat 4 weeks after the first treatment.
Mealybugs	30 g <b>PLUS</b> 250 to 500 mℓ light narrow range distillation oil (0.25 to 0.5 %) <b>PLUS</b> 10 mℓ <b>Latron B-1956</b>	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. <b>NOTE</b> If only Mealybug is present (no Red scale), may the oil be omitted.
Woolly Whitefly ( <i>Aleurothrixus floccosus</i> )	30 g / 100 ℓ water  <b>PLUS</b>  20 mℓ / 100 ℓ <b>Charge</b>	<b>Single treatment per season ONLY:</b>  Apply as a medium cover spray when adults are active on leaves and/or nymphs are noticed on the underside of leaves.  Ensure thorough wetting of the ventral leaf surfaces.

#### 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.

The following products mentioned in this label may be replaced with equivalent products:

- **CHARGE** (L 9100) = **TECHNIWET SUPER** (L9239) and
- **VILLA 51** (L 8050 / W 130454 / N-AR 1090 = **WEN 51** (L 8315).

**LATRON B-1956** is a registered product of / is 'n geregistreerde produk van  
**DETEKTO INTERNATIONAL CC.**

**VILLA 51, WEN 51, CHARGE** and/en **TECHNIWET SUPER** are registered products of / is geregistreerde  
produkte van  
**VILLA CROP PROTECTION (PTY) LTD**