

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Insecticide



TRIVIA 500 WDG

Reg. No. L 9969 Act/Wet No. 36 of/van 1947  
N-AR 1930

2: 10/9/2019 – Oct2019

*A wettable dispersable granular systemic insecticide for the control of insect pests in crops and ornamental plants as indicated.*

*'n Waterdispergeerbare korrel sistemiese insekdoder vir die beheer van insekplae in gewasse en ornamentele plante soos aangedui.*

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

pymetrozine (pyridine azomethine) **500 g/kg** pymetrosien (piridien azometien)

IRAC INSECTICIDE GROUP CODE **9B** IRAC INSEKDODER GROEPKODE

kg

**villa**

Registration holder / Registrasiehouer:

Villa Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1992/002474/07

PO Box / Posbus 10413, Aston Manor, 1630

Tel: 011 396 2233

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

**24 HR EMERGENCY NUMBERS:**

Griffon Poison Information Centre: +27 82 446 8946

Villa Crop Protection Emergency number: +27 63 698 0668

24 Hr Transport / Spill emergency no: Envirosure +27 31 205 4918

(Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

UN Number: Not Regulated

Willow Set & Print 011 394-4486



CAUTION  
VERSIGTIG



GEBRUIKSAANWYSLINGS INGESLUIT

VERWYS NA BESONDERHEDE  
GEDRUK OP HOUER/SAK

Date formulated:  
Formuleringsdatum:

REFER TO DETAILS PRINTED  
ON CONTAINER/BAG

DIRECTIONS FOR USE ENCLOSED

Batch number:  
Lotnommer:

**TRIVIA 500 WDG**

Reg. No. L 9969 / N-AR 1930 Act/Wet No. 36 of/van 1947

IRAC INSECTICIDE GROUP CODE / IRAC INSEKODER GROEPKODE: 9B

**ACTIVE INGREDIENT/ AKTIEWE BESTANDDEEL:**

pymetrozine (pyridine azomethine)/ pymetrosien (piridien azometien).....500 g/kg

Registration holder / Registrasiehouer:

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

Co. Reg. No.: 1992/002474/07 Mpy. Reg. Nr.

PO Box / Posbus 10413

ASTON MANOR, 1630, Tel. (011) 396 2233

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

<b>Minimum time between last application and harvest and/or grazing:</b>	
Avocados	21 days
Asparagus	170 days
Cruciferae	7 days
Canola	14 days
Carrots	3 days
Macadamias	21 days
Cotton (grazing)	14 days
Cotton	21 days
Potatoes	7 days
Stone fruit	28 days
Tobacco	14 days
Tomatoes	3 days
Tuberous root corm vegetables	14 days
Wheat and Barley	21 days

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

- Handle with care.
- Harmful if inhaled or in contact with skin.
- May cause skin irritation and serious eye damage.
- Harmful if swallowed.
- May irritate skin and eyes.
- Store in original container in a cool, well-ventilated, dry place away from food, feeds, fertilizers and other agricultural remedies.
- Do not store below 0°C and above 35°C.
- Do not stack product containers higher than two meters.
- Use contents within a few days after container has been opened.
- Keep out of reach of children, animals and uninformed persons.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

**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 pest 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**

- Do not inhale the powder dust and spray mist.
- Do not handle until all safety precautions have been read and understood; suspected of causing cancer.
- Avoid contact with skin, eyes or clothing. In the case of accidental contamination change contaminated clothing immediately and wash the skin with soap and water.
- Wear rubber gloves and a face shield when handling the concentrate.
- Wash contaminated clothing after use.
- Wash with soap and water after use or accidental skin contact.
- Do not eat, drink or smoke whilst mixing, applying the product or before washing hands and face or change of clothing.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Thoroughly clean spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- Containers and packages must be completely emptied before being disposed of. Shake out thoroughly into the applicator and destroy the empty container thereafter in the described manner.
- Invert the empty container over the spray or mixing tank to make sure the container is empty before destroying the container.
- Destroy the empty container by perforation and flattening.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Avoid contamination of soil and surface water.
- Dispose of excess pesticide, spray mixture or rinsate where it will not contaminate crops, grazing, rivers, dams or boreholes.
- Dispose of empty containers in a landfill site or burn in a safe place. If burned, avoid inhalation of the smoke.
- Do not re-use empty containers for any other purpose.

## **RESISTANCE WARNING**

**TRIVIA 500 WDG** is a group code 9B insecticide. Any insect population may contain individuals naturally resistant to **TRIVIA 500 WDG** and other group code 9B insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **TRIVIA 500 WDG** or any other group code 9B insecticide.

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.

## **USE RESTRICTIONS**

- Use **TRIVIA 500 WDG only** on the following ornamental plants:  
Impatiens, Poinsettia and the following Chrysanthemum varieties: Polaris, Regens, Snowdown, Victoria yellow, Siglo pink, Stallion, Westland yellow, Rhino white, Lineker, Lineker dark, Albert Heijn and Roses.
- **Do not** add a surfactant when using **TRIVIA 500 WDG** in ornamental plants.

## **PRODUCT PROPERTIES**

- **TRIVIA 500 WDG** is an insecticide with a mode of action that differs from most current insecticides. It is especially suitable for inclusion into IPM programmes for the control of sucking insect species that have developed resistant to current insecticides.
- It is absorbed into live green foliage and translocated within the plant. Target insects, not directly hit by the spray droplets, are thus also controlled in this way.
- **TRIVIA 500 WDG** adversely affects the feeding of Aphids and Whiteflies causing an immediate cessation of feeding. It must be noted that there is no visible knock-down effect; the pests remain alive initially and may move around but do not feed.
- Once ingested by the target insects, the effect of **Pymetrozine** is irreversible. The pest insects die a few days later due to starvation.

- The toxicity of **TRIVIA 500 WDG** towards Birds, Fish, Earthworms, Bacteria and Bees is practically non-significant. Due to this, **TRIVIA 500 WDG** will not adversely affect the natural enemies and predators of Aphids and Whiteflies.

**DIRECTIONS FOR USE: Use only as directed.**

**Compatibility:**

- TRIVIA 500 WDG** is compatible with the surfactants **Charge** and **Direct**.
- The compatibility of **TRIVIA 500 WDG** with other products may be influenced by the formulation of the products involved as well as the quality of the water. Since the formulation of other products may change without the knowledge of the registration holder, and the quality of water may vary from farm to farm, a physical compatibility test should always be carried out prior to application. **TRIVIA 500 WDG** is compatible with most standard insecticides and fungicides that are not sensitive to specific pH values. In the event of any doubt, a compatibility test should be carried out.

**Mixing instructions:**

- Fill the spray tank with clean water to just below the total volume required.
- Make a slurry of the **TRIVIA 500 WDG** to be added to the tank in a suitable container, ensuring that all the chemical has dispersed.
- Add the mixture to the water while stirring.
- Fill the spray tank with water to the required level while maintaining agitation, to ensure thorough mixing.
- Prepared spray mixtures must not be left in the spray tank for any length of time, e.g. overnight.

**Application instructions:**

- It is important that all applications must be performed with suitable equipment that is in good working order and correctly calibrated to give the desired coverage for that particular method of application.
- Apply as a full cover application but not to the point of run-off.
- Add the recommended adjuvants to **TRIVIA 500 WDG** to improve wetting and contact between spray mixture and waxy surfaces where recommended below.
- Only use suitable and correctly calibrated and spray equipment that is in good working order, to ensure good, even wetting of all plant parts.

**APPLICATION RATES**

<b>Crop / Pest</b>	<b>Dosage Rate</b>	<b>Remarks</b>
<b>Asparagus</b> Aphids <i>Aphis fabae</i> , <i>Aphis gossypii</i> , <i>Macrosiphum euphorbiae</i>	40 to 60 g / 100 l water	Apply as a full cover spray in sufficient water when Aphids first appear, before populations reach damaging levels. Ensure good coverage of the target area. The addition of a non-ionic surfactant to the spray mixture is recommended. <b>Do not</b> apply more than 600 g per hectare per application. <b>Do not</b> exceed a total of 1200 g per hectare per season. For control of Aphids, apply to asparagus ferns after harvest has been completed. Allow a minimum of 30 days between applications. A follow-up treatment may be required to control persistent Aphid populations, however, do not apply more than the maximum amount permitted per season (1200 g per hectare).

<b>Crop / Pest</b>	<b>Dosage Rate</b>	<b>Remarks</b>
<b><u>Avocados</u></b> Sucking bug complex ( <i>Taylorilygus</i> spp., <i>Penthimiola bella</i> , <i>Nezara viridula</i> , <i>Coenomorpha</i> <i>nervosa</i> , <i>Atelocera</i> <i>raptor</i> )	40 g / 100 ℓ water	<b><u>Ground application:</u></b> Apply as a medium cover spray (diffuse wetting of the target area) as soon as threshold levels are reached (before flowering and up to the end of December = 1 stinkbug per tree; from January onwards = 2 Stinkbugs per tree). Ensure good coverage. Repeat application after 4 weeks if required, but not after three (3) weeks before harvest. Application timing is critical: A too early application, before threshold is reached, may result in re-infestation. Small fruit may be partially when applied too late.
<b><u>Cruciferae</u></b> (Including: Cabbages, Broccoli, Cauliflowers, Brussel sprouts)  Cabbage aphid ( <i>Brevicoryne</i> <i>brassicae</i> )	20 g to 60 g / 100 ℓ water  <b>PLUS</b>	Apply when Aphids first appear, before populations reach damaging levels. Apply as a full cover application and ensure good coverage. Addition of a penetrating type spray adjuvant (e.g. <b>Charge</b> ) is recommended to improve spreading and penetration. <b>Do not</b> exceed 600 g per hectare (6 g per 100 m <sup>2</sup> ) per application. Do not apply more than 1200 g per hectare per crop per season.
Whiteflies ( <i>Trialeurodes</i> <i>vaporariorum</i> , <i>Bemisia tabaci</i> )	20 ml / 100 ℓ water <b>Charge</b>	To obtain optimum control of persistent Aphid populations, a follow up application can be done after at least 7 days after the first treatment.  <b><u>Note on Whiteflies:</u></b> Suppression only, 60 to 90 % control can be expected. Apply when adult Whiteflies first appear, before populations build up to damaging levels.
<b><u>Canola</u></b> Cabbage aphid ( <i>Brevicoryne</i> <i>brassicae</i> ),	400 g/ha  <b>PLUS</b>  50 ml / 100 ℓ water <b>Link</b>	Apply a single treatment when the pest is noticed. Apply in sufficient water, to ensure good coverage. If further control is required, apply an alternative registered remedy with a different mode of action. The addition of a non-ionic surfactant to the spray mixture is recommended.
<b><u>Carrots</u></b> Aphids (Various spp.)	20 g / 100 ℓ water	Start applications at first signs of aphid infestations. Apply in 250 to 500 litres water per hectare and ensure good coverage of the plants. Follow-up treatments may be required where high, established pest populations are present.
<b><u>Cotton</u></b> Cotton aphid ( <i>Aphis gossypii</i> )	400 g/ha	Apply when the pest population increases, or economic threshold level is exceeded. Apply in at least 150 litres water per hectare and ensure complete coverage of the leaves. If required, apply a second application 7 to 10 days later if pest numbers start to increase again.

Crop / Pest	Dosage Rate	Remarks
<p><b><u>Tuberous Root Corm Vegetables</u></b> (Including Cassava: bitter and sweet Chinese artichoke, Ginger, Sweet potato)</p> <p>Green peach aphid (<i>Myzus persicae</i>),</p> <p>Potato aphid (<i>Macrosiphum euphorbiae</i>),</p> <p>Cotton aphid (<i>Aphis gossypii</i>)</p>	<p>400 to 600 g/ha (4 to 6 g / 10 ℓ water)</p>	<p>Apply when Aphids first appear, before populations reach damaging levels. Apply as a full cover application and ensure good coverage.</p> <p>The addition of a non-ionic surfactant to the spray mixture is recommended. <b>Do not</b> exceed 600 g per hectare (6 g per 100 m<sup>2</sup>) per application. Do not apply more than 1200 g per hectare per crop per season.</p> <p>To obtain optimum control of persistent Aphid populations, a follow up application can be done after at least 7 days after the first treatment.</p>
<p><b><u>Macadamias</u></b> Sucking bug complex (<i>Pseudotheraptus wayi</i>, <i>Bathycoelia natalicola</i> &amp; Stink bugs from the Coreidae and Pentatomidae families)</p>	<p>40 g / 100 ℓ water</p>	<p>Apply as a medium cover spray as soon as threshold levels are reached and ensure good coverage (diffuse wetting type) of the target area. Threshold of average of 0.4 Stinkbugs per tree as per the <b>Dichlorvos</b> technique. Repeat application after 4 weeks later if necessary, but not after 21 days before harvest. Do not apply less than 3000 litres spray mixture per hectare, but if less than 3000 litres per hectare is applied, <b>do not</b> use less than 1.2 kg <b>TRIVIA 500 WDG</b> per hectare.</p>
<p><b><u>Potatoes</u></b> Green Peach Aphid (<i>Myzus persicae</i>) Potato Aphid (<i>Macrosiphum euphorbiae</i>)</p>	<p>60 g / 100 ℓ water</p> <p><b>PLUS</b></p> <p><b>Charge</b> 40 ml / 100 ℓ water</p>	<p>Apply when first Aphid colonies are noticed.</p> <p>Apply in 500 to 1000 litres water per hectare (depending on plant height and/or plant density) and repeat 14 days later if necessary.</p>
<p><b><u>Stone fruit</u></b> (Including Apricots, Cherries, Nectarines, Peaches &amp; Plums)</p> <p>Aphids (<i>Myzus persicae</i>, <i>Brachycaudus persicae</i>)</p>	<p>20 to 40 g / 100 ℓ water</p>	<p>Apply when Aphid infestation is noticed.</p> <p>The total rate of <b>TRIVIA 500 WDG</b> must not exceed 400 g per hectare when water volumes exceed 2000 litres per hectare.</p>

<b>Crop / Pest</b>	<b>Dosage Rate</b>	<b>Remarks</b>
<b><u>Tobacco</u></b> Green peach aphid ( <i>Myzus persicae</i> )	40 to 60 g / 100 ℓ water	Apply as a full cover spray in sufficient water when Aphids first appear, before populations reach damaging levels.
Sucking bug complex  Whiteflies ( <i>Trialeurodes vaporariorum</i> , <i>Bemisia tabaci</i> )	80 g / 100 ℓ water but not less than 400 g product / ha	Ensure good coverage of the target area. The addition of a non-ionic surfactant to the spray mixture is recommended. <b>Do not</b> apply more than 600 g per hectare per application. <b>Do not</b> exceed a total of 1200 g per hectare per season. A follow up treatment, after at least 1 week, may be required to control persistent Aphid populations, <u>Note on Whiteflies</u> : Suppression only, 60 to 90 % control can be expected. Apply when adult Whiteflies first appear, before populations build up to damaging levels.
<b><u>Tomatoes</u></b> Green peach aphid, ( <i>Myzus persicae</i> )	30 g / 100 ℓ water	Apply at first signs of an Aphid infestation. Two applications are recommended 7 to 10 days apart. Do not apply more than two (2) <b>TRIVIA 500 WDG</b> treatments per season.
Whiteflies ( <i>Trialeurodes vaporariorum</i> , <i>Bemisia tabaci</i> )	80 g / 100 ℓ water (8 g / 10 ℓ water)	<u>Note on Whiteflies</u> : Suppression only, 60 to 90 % control can be expected. Apply when adult Whiteflies first appear, before populations build up to damaging levels. Two (2) to three (3) applications may be required to control persistent Whitefly populations, at 7-day intervals.
<b><u>Wheat and Barley</u></b> Spring Wheat aphid ( <i>Schizaphis graminum</i> )  Oat aphid ( <i>Rhopalosiphum padi</i> )  Russian aphid ( <i>Diuraphis noxia</i> )	400 g/ha  <b>PLUS</b>  <b>Link</b> 50 ml / 100 ℓ water	Apply when the pest is noticed. Do not apply later than the ear emergence stage of wheat.  <u>Ground application</u> : Apply in not less than 150 litres water per hectare and ensure good coverage of all plant parts. If required, apply a follow-up treatment with an alternative registered insecticide.
<b><u>Ornamentals</u></b> <b>(in greenhouses only)</b>  <u>Impatiens</u> Green peach aphid ( <i>Myzus persicae</i> ) Whitefly ( <i>Trialeurodes vaporariorum</i> )	<b><u>IMPORTANT</u></b> <b>Refer to “USE RESTRICTIONS” above for list of flower varieties that TRIVIA 500 WDG can be applied on.</b>  80 to 120 g / 100 ℓ water (8 to 12 g / 10 ℓ water)	Commence spraying at the first signs of infestation using the higher dosage rate. Thereafter, repeat at the lower dosage rate at weekly intervals. <b>Do not</b> apply more than three (3) treatments to the same crop. Ensure thorough wetting of the foliage.
<b><u>Poinsettias &amp; Chrysanthemums</u></b>  Green peach aphid ( <i>Myzus persicae</i> )	60 g / 100 ℓ water (6 g / 10 ℓ water)	Commence spraying at first signs of infestation and repeat as necessary. <b>Do not</b> apply more than three (3) treatments to the same crop. Ensure thorough wetting of the foliage.

<b>Crop / Pest</b>	<b>Dosage Rate</b>	<b>Remarks</b>
<u><b>Roses</b></u> Common rose aphids, ( <i>Macrosiphum rosae</i> )  Green peach aphid, ( <i>Myzus persicae</i> )	30 g / 100 ℓ water (3 g / 10 ℓ water)	Apply at first signs of infestation and repeat as necessary. <b>Do not</b> apply more than three (3) treatments per season. Ensure thorough wetting of the foliage.

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

- **LINK** (L 8675) = **DIRECT** (L 8680) and
- **CHARGE** (L 9100 / W 130953) = **TECHNIWET SUPER** (L 9239).

**LINK, CHARGE, DIRECT** and/en **TECHNIWET SUPER** are registered products of / is gereregistreerde produkte van  
**VILLA CROP PROTECTION (PTY) LTD.**