

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.



Insecticide

TRIVIA 500 WDG

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

3: 25/7/2022 – Sept2023

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

ACTIVE INGREDIENT

pymetrozine 500 g/kg
(pyridine azomethine)

GROUP 9B INSECTICIDE

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG



Hazard Statements:

- May be harmful in contact with skin.
- Causes mild skin irritation.
- Causes serious eye damage.
- Harmful if inhaled.
- Suspected of causing cancer.
- Suspected of damaging fertility or the unborn child.

Precautionary Statements:

- Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
- Avoid release into the environment.

DANGER

kg



UN Number: 3077

Registration holder: VILLA CROP PROTECTION (PTY) LTD.
Co. Reg. No. 1992/002474/07
PO Box 10413, Aston Manor, 1630
Tel. (011) 396 2233
Website: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:
Griffon Poison Centre: +27 82 446 8946
24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411
(Client: Villa Crop Protection)

DIRECTIONS FOR USE ENCLOSED
Batch Number:
Date of Manufacture:

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IRAC INSECTICIDE GROUP CODE: 9B

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PO Box 10413,

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

WARNINGS**Withholding periods:**

Minimum time between last application and harvest and/or grazing:	
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.

Hazard statements:

May be harmful in contact with skin.
Causes mild skin irritation.
Causes serious eye damage.
Harmful if inhaled.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
Very toxic to aquatic life with long lasting effects.

- Handle with care.
- 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

Precautionary statements:

Obtain, read and follow all safety instructions before use.
Avoid breathing dust or spray.
Wash hands thoroughly after handling. Do not touch eyes.
Use only outdoors or in a well-ventilated area.
Avoid release into the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF ON SKIN and skin irritation occurs: Get medical help.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
IF exposed or concerned, get medical advice.
Collect spillage.
Store locked up.
Dispose of content/container to suitable landfill in accordance with local regulations.

- Wash contaminated clothing after use.
- 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.

Relevant hazardous components	
Pymetrozine	50 %
Sodium dodecyl benzene sulfonate	< 5 %

FIRST AID TREATMENT

- In case poisoning is suspected: Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure.
- Skin contact: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. **Seek medical attention if irritation occurs.**

- **Eye contact:** Flush eyes with clean water for at least 15 to 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after five (5) minutes and continue rinsing. **Seek medical attention.**
- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. **Seek medical attention.**
- **Ingestion:** Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.
- **Advice to physician:** Treat symptomatically and supportively. No specific antidote known.

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.
- Add a non-ionic surfactant (e.g., **Villa 51**) when **TRIVIA 500 WDG** is applied onto cabbage.

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 **Link**.
- 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 as 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

Crop / Pest	Dosage Rate	Remarks
<u>Asparagus</u> 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. Do not apply more than 600 g per hectare per application. Do not 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).
<u>Avocados</u> Sucking bug complex (<i>Taylorilygus</i> spp., <i>Penthimiola bella</i> , <i>Nezara viridula</i> , <i>Coenomorpha nervosa</i> , <i>Atelocera raptoria</i>)	40 g / 100 ℓ water	<u>Ground application:</u> 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 four (4) weeks if required, but not after 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.

Crop / Pest	Dosage Rate	Remarks
<p><u>Cruciferae</u> (Including: Cabbages, Broccoli, Cauliflowers, Brussel sprouts)</p> <p>Cabbage aphid (<i>Brevicoryne brassicae</i>)</p>	<p>20 g to 60 g / 100 ℓ water</p> <p>PLUS</p>	<p>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 of spray adjuvant (e.g., Charge) is recommended to improve spreading and penetration. Do not exceed 600 g per hectare (6 g per 100 m²) per application. Do not apply more than 1200 g per hectare per crop per season.</p>
<p>Whiteflies (<i>Trialeurodes vaporariorum</i>, <i>Bemisia tabaci</i>)</p>	<p>20 ml / 100 ℓ water</p> <p>Charge</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><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.</p>
<p><u>Canola</u> Cabbage aphid (<i>Brevicoryne brassicae</i>),</p>	<p>400 g/ha</p> <p>PLUS</p> <p>50 ml / 100 ℓ water</p> <p>Link</p>	<p>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.</p>
<p><u>Carrots</u> Aphids (Various spp.)</p>	<p>20 g / 100 ℓ water</p>	<p>Start applications at first signs of Aphid infestations. Apply in 250 to 500 litres of water per hectare and ensure good coverage of the plants. A follow-up treatment may be required where high, established pest populations are present. Apply the follow-up treatment after 10 days. Do not exceed a maximum of two (2) applications.</p>
<p><u>Cotton</u> Cotton aphid (<i>Aphis gossypii</i>)</p>	<p>400 g/ha</p>	<p>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.</p>
<p><u>Tuberous Root Corm Vegetables</u> (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. The addition of a non-ionic surfactant to the spray mixture is recommended. Do not exceed 600 g per hectare (6 g per 100 m²) per application. Do not apply more than 1200 g per hectare per crop per season. 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>

Crop / Pest	Dosage Rate	Remarks
<u>Macadamias</u> Sucking bug complex (<i>Pseudotheraptus wayi</i> , <i>Bathycoelia natalicola</i> & Stink bugs from the Coreidae and Pentatomidae families)	40 g / 100 ℓ water	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 Dichlorvos technique. Repeat application after four (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, do not use less than 1.2 kg TRIVIA 500 WDG per hectare.
<u>Potatoes</u> Green Peach Aphid (<i>Myzus persicae</i>) Potato Aphid (<i>Macrosiphum euphorbiae</i>)	60 g / 100 ℓ water PLUS Charge 20 ml / 100 ℓ water	Apply when first Aphid colonies are noticed. Apply in 500 litres water per hectare and repeat 14 days later if necessary. Do not exceed two (2) applications per season.
<u>Stone fruit</u> (Including Apricots, Cherries, Nectarines, Peaches & Plums) Aphids (<i>Myzus persicae</i> , <i>Brachycaudus persicae</i>)	20 to 40 g / 100 ℓ water	Apply when Aphid infestation is noticed. The total rate of TRIVIA 500 WDG must not exceed 400 g per hectare when water volumes exceed 2000 litres per hectare.
<u>Tobacco</u> 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. Ensure good coverage of the target area. The addition of a non-ionic surfactant to the spray mixture is recommended.
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	Do not apply more than 600 g per hectare per application. Do not 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.
<u>Tomatoes</u> 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) TRIVIA 500 WDG 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.

Crop / Pest	Dosage Rate	Remarks
<u>Wheat and Barley</u> Spring Wheat aphid (<i>Schizaphis graminum</i>) Oat aphid (<i>Rhopalosiphum padi</i>) Russian aphid (<i>Diuraphis noxia</i>)	400 g/ha PLUS Link 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.
<u>Ornamentals</u> (in greenhouses only) <u>Impatiens</u> Green peach aphid (<i>Myzus persicae</i>) Whitefly (<i>Trialeurodes vaporariorum</i>)	<u>IMPORTANT</u> Refer to “USE RESTRICTIONS” above for list of flower varieties that TRIVIA 500 WDG can be applied on.	
	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. Do not apply more than three (3) treatments to the same crop. Ensure thorough wetting of the foliage.
<u>Poinsettias & Chrysanthemums</u> 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. Do not apply more than three (3) treatments to the same crop. Ensure thorough wetting of the foliage.
<u>Roses</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. Do not 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 / N-AR 2241) = **TECHNIWET SUPER** (L 9239).

CHARGE, DIRECT and TECHNIWET SUPER are registered products of
VILLA CROP PROTECTION (PTY) LTD.

LINK is a registered product of **UNIVERSAL CROP PROTECTION (PTY) LTD.**