



# PYMETROZINE 500 WG

Reg. No. L 11095 Act No. 36 of 1947

READ ATTACHED PACKAGED LEAFLET BEFORE USE  
AND  
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

GROUP	9B	INSECTICIDE
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A water dispersible granular systemic insecticide for the control of Stink bugs in a variety of crops as listed.



**DANGER**

## Hazard Statements

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

## Precautionary statements

Obtain, read and follow all safety instructions before use.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid release to the environment.

## **ACTIVE INGREDIENT:**

Pymetrozine (pyridine azomethine) ..... 500 g/kg

## **Registration holder:**

**UPL South Africa (Pty) Ltd.**

Co. Reg. No.: 2009/019713/07

7 Sunbury Office Park,

Off Douglas Saunders Drive, La Lucia Ridge,

South Africa, 4019

Tel: 031 514 5600

**Net Mass:**

**Kg**

Batch No.:

Date of Manufacture:

Expiry date (< 2 years):

**U.N. No.: 3077**

**In case of Poisoning call the following : Griffon Poison Information Centre: 082 446 8946,  
number(s): Poisons Information Helpline: 0861 555 777,**

**Emergency number(s): In case of Spillage: Spill Tech: 086 100 0366 / 083 253 6618**

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IRAC INSECTICIDE GROUP CODE: 9B

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**WARNINGS**

H332- Harmful if inhaled.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H361- May damage fertility or the unborn child.  
H351 - Suspected of causing cancer.  
H410 - Very toxic to aquatic life with long lasting effects.

**ALLOW THE FOLLOWING NUMBER OF DAYS BETWEEN THE LAST APPLICATION AND HARVEST OF THE CROPS:**

<b>Cotton</b>	21 days
<b>Avocado</b>	21 days
<b>Tree nuts (Includes Almonds, Macadamias, Pistachios, Walnuts, Hazelnuts and Pecan Nuts)</b>	21 days
<b>Citrus</b>	42 days
<b>Asparagus</b>	170 days

- Handle with care.
- Harmful when swallowed.
- Store under lock and key in a cool, dry place, away from food, feeds, seed, fertilizer and other agricultural chemicals.
- 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.**
- Avoid storage below 0 °C and above 35 °C.

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. The action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, incompatibility with other substances not indicated on the label, the occurrence of resistance of pests against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore 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 the event of any uncertainty.

## PRECAUTIONS

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.  
P203 - Obtain, read and follow all safety instructions before use.  
P261 - Avoid breathing dust/mist.  
P264 + P265 - Wash hands, forearms and face thoroughly after handling. Do not touch eyes.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302 + P352 - IF ON SKIN: Wash with plenty of water.  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P354 + P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P317 - Get medical help.  
P318 - IF exposed or concerned, get medical advice.  
P321 - Specific treatment (see supplemental first aid instructions on this label).  
P332 + P317 - If skin irritation occurs: Get medical help.  
P362 + P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

- Do not inhale dust or spray mist.
- Avoid contact with skin and eyes.
- **PYMETROZINE 500 WG** is practically non-toxic to birds, fish, Earthworms and bacteria.
- **Do not apply PYMETROZINE 500 WG directly to Bees that are actively foraging in the field.**
- Wear protective clothing, e.g., rubber gloves, rubber boots and a facemask when handling the product and preparing the spray mixture.
- Wash with soap and water after use and accidental skin contact.
- In case of eye contact, immediately flush the contaminated eyes with gentle flowing water for 20 minutes, occasionally lifting upper and lower lids, until no evidence of chemical remains.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing, applying or before washing hands and face or changing clothing.
- Avoid drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Avoid contamination of soil and surface water.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- **CLEAN THE EMPTY PLASTIC BAG AS FOLLOWS:** Turn the bag inside out. Hold the bag over the spray or mixing tank and rinse the bag with running water for thirty seconds. Shake the rinsate off into the tank. Repeat the rinsing twice. Cut the bag (if relevant) into pieces and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn or donate the bag to any other parties that may use it as container for foodstuffs. Prevent contamination of food, feeds, drinking water and eating utensils.
- Do not re-use empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

## RELEVANT SUBSTANCES

Pymetrozine	50 %
Sodium lauryl sulfate	12 %

## FIRST AID TREATMENT

- **Inhalation:** Assure fresh air breathing. Allow the victim to rest. Consult a physician in the event of any complaints.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
- **Skin contact:** Remove contaminated clothing and wash contaminated body areas with soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
- **Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

## **NOTE TO PHYSICIAN**

Treat symptomatically.

## **RESISTANCE WARNING**

**PYMETROZINE 500 WG** is a group code **9B** insecticide. Any insect population may contain individuals naturally resistant to **PYMETROZINE 500 WG** 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 **PYMETROZINE 500 WG** or any other group code **9B** insecticides.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticide 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.

## **NOTICE TO THE USER**

**THIS AGRICULTURAL REMEDY IS TO BE USED ONLY IN ACCORDANCE WITH THE INSTRUCTIONS ON THE LABEL. IT IS AN OFFENCE UNDER THE ACT TO USE THIS AGRICULTURAL REMEDY FOR ANY PURPOSE IN A MANNER CONTRARY WITH THE DIRECTIONS ON THE LABEL.**

## **DIRECTIONS FOR USE: Use only as indicated.**

### **Compatibility:**

The compatibility of **PYMETROZINE 500 WG** with other products has not been tested.

- Do not use other products, which are not mentioned on this label, in combination with **PYMETROZINE 500 WG**. Consult the registration holder, **UPL South Africa (Pty) Ltd.** in case of any uncertainty.
- Always refer to the label of the product to be used in combination with **PYMETROZINE 500 WG** and adhere to the instructions, restrictions and directions for use.

### **Aerial application:**

Aerial application of **PYMETROZINE 500 WG** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SABS Code 0118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- Volume: A spray mixture volume of 30 litres per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- Droplet coverage: 25 to 30 droplets per cm<sup>2</sup> must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 280 to 300 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- Flying height: Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the wind speed exceeds 15 km per hour.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
  - Reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
  - Damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the Aerial Spray Operator knows exactly which fields to spray.
- Obtain an assurance from the Aerial Spray Operator that the above requirements will be met, and that relevant data will be compiled in a logbook and kept for future reference.

## APPLICATION RATES

<b>Crop/Pest</b>	<b>Dosage</b>	<b>Remarks</b>
<b><u>Asparagus</u></b>  Aphids ( <i>Aphis fabae</i> , <i>Aphis gossypii</i> , <i>Macrosiphum euphorbiae</i> )	40 to 60 g / 100 l water	<ul style="list-style-type: none"> <li>• Apply in sufficient water to ensure good coverage; use a minimum of 40 litres per hectare when applied by air and 100 litres per hectare when applied by ground. To provide optimum coverage and penetration, add a penetrating type of spray adjuvant at the manufacturer's specified rate.</li> <li>• Do not apply more than 600 g per hectare per application.</li> <li>• <b>Do not exceed a total of 1200 g/ha per season.</b></li> <li>• Allow a minimum of 30 days between applications.</li> <li>• For control of Aphids, apply to asparagus ferns after harvest has been completed. Allow a minimum of 30 days between applications.</li> <li>• Apply when Aphids first appear, before populations build to damaging levels.</li> <li>• Additional applications may be needed to control persistent Aphid populations, however, <b>do not apply more than the maximum amount permitted per season (1200 g/ha).</b></li> </ul>
<b><u>Avocado</u></b>  <u>Sucking bug complex:</u> ( <i>Taylorilygus</i> sp., <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> <ul style="list-style-type: none"> <li>• Ensure good coverage (diffuse wetting type) of the target area through a medium cover spray as soon as threshold levels are reached. (Before flowering and up to the end of December – one (1) Stinkbug per tree; from January onwards – two (2) Stinkbugs per tree).</li> <li>• Repeat application after 28 days, if necessary, but not later than 21 days before harvest.</li> <li>• Application timing is critical: A too early application, before threshold is reached, can result in re-infestation. Small fruit may be partially damaged in case of a late application.</li> </ul>
	1200 g/ha	<u>Aerial application:</u> <ul style="list-style-type: none"> <li>• Apply in 30 litres of water per hectare. Apply during flowering (100 %) or first fruit set.</li> </ul>

<b>Crop/Pest</b>	<b>Dosage</b>	<b>Remarks</b>
<b><u>Citrus</u></b> Citrus leaf hopper ( <i>Penthiniola bella</i> ) Green Citrus leaf Hopper ( <i>Empoasca distinguenda</i> )	40 g/100 l water  <u>Minimum dosage:</u> 1.2 kg <b>PYMETROZINE 500</b> <b>WG / ha</b>	<ul style="list-style-type: none"> <li>• Apply at first signs of infestation in a maximum of 3000 litres of water per hectare.</li> <li>• A second application may be applied 7 to 10 days later if necessary.</li> <li>• <b>Do not exceed two (2) applications per season.</b></li> </ul>
Green Citrus leaf Hopper	1200 g/ha	<u>Aerial Application:</u> <ul style="list-style-type: none"> <li>• Apply in 30 litres of water per hectare.</li> </ul>
<b><u>Cotton</u></b> Cotton aphid ( <i>Aphis gossypii</i> )	400 g/ha	<ul style="list-style-type: none"> <li>• Apply when the pest becomes numerous or when the pest population reaches economic threshold level. Apply in not less than 150 litres of water per hectare to ensure thorough coverage of the leaves.</li> </ul>
Cotton leafhopper ( <i>Jacobiella facialis</i> )	500 g/ha	<ul style="list-style-type: none"> <li>• A second application may be required 7 to 10 days later when pest numbers start to increase again.</li> </ul>
Whiteflies (Suppression only - 60 -90 % control) ( <i>Trialeurodes vaporariorum</i> , <i>Bemisia tabaci</i> )	400 to 600 g/ha	<ul style="list-style-type: none"> <li>• Apply when adult Whiteflies first appear, before populations build to damaging levels.</li> </ul>
<b><u>Tree nuts</u></b> (Includes Almonds, Macadamias, Pistachios, Walnuts, Hazelnuts and Pecan Nuts)  <u>Sucking bug complex:</u> ( <i>Pseudotheraptus wayi</i> , <i>Bathycoelia natalicola</i> and Stink bugs from the Coreidae and Pentatomidae families)	40 g/100 l water  <u>Minimum dosage:</u> 1.2 kg <b>PYMETROZINE 500</b> <b>WG / ha</b>	<ul style="list-style-type: none"> <li>• Ensure good coverage (diffuse wetting type) of the target area through a medium cover spray as soon as threshold levels are reached (an average of 0.4 Stinkbugs per tree using the <b>Dichlorvos</b> technique).</li> <li>• Repeat application after 28 days, if necessary, but not later than 21 days before harvest.</li> </ul>