

READ THE LABEL BEFORE USE. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

Insecticide



# MAINTAIN 200 SP

Reg. No. L 9225 Act No. 36 of 1947  
N-AR 1857 / W 1301368

6: 30/09/2024 – Oct2024

A water-soluble powder systemic, contact and stomach insecticide for the control of insect pests in crops as indicated.

## ACTIVE INGREDIENT

acetamiprid (acetamidine) 200 g/kg

**GROUP 4A INSECTICIDE**



**DANGER**

### Hazard Statements:

Harmful if swallowed.  
Causes mild skin irritation.  
Causes serious eye damage.

### Precautionary Statements:

Wash hands thoroughly after handling.  
Do not touch eyes.  
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.

kg

**villa**

UN Number: Not Regulated

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.  
Co. Reg. No. 1983/008184/07  
65 Botes Road, Glen Marais, Kempton Park, 1619  
Tel. (011) 396 2233  
Website: [www.villacrop.co.za](http://www.villacrop.co.za)

**IN CASE OF POISONING / 24 HR EMERGENCY NUMBERS:**  
Griffon Poison Information Centre (National): +27 82 446 8946  
Poison Information Helpline (National): +27 861 555 777  
24 Hr Transport / Spill emergency no: (Hazcall24) +27 86 044 4411  
(Client: Villa Crop Protection)

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:

**MAINTAIN 200 SP**

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IRAC INSECTICIDE GROUP CODE: 4A

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Co. Reg. No. 1983/008184/07

65 Botes Road, KEMPTON PARK, 1619

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**WARNINGS****Withholding periods:**

<b>Minimum time between the last application and harvest and/or grazing:</b>	
Apples and Pears	50 days
Barley	60 days
Citrus (including Lemons, Limes, Mandarins, Grapefruit, Oranges, Tangerines)	150 days
Canola, Wheat & Sugarcane	56 days
Cotton	21 days
Cucurbits (including Butternuts, Cucumbers, Patty Pans, Melons, Marrows, Pumpkins, Squash)	3 days
Oats	70 days
Potatoes	21 days
Rooibos tea	90 days
Stone fruit (including Peaches, Plums, Prunes, Nectarines, Apricots, Cherries)	28 days
Table grapes	45 days
Tobacco	14 days
Tomatoes	3 days
Tree nuts (including Macadamias, Almonds, Cashew nuts, Chestnuts, Hazelnuts, Pecan nuts, Pistachio nuts, Walnuts)	28 days

**NOTE**

**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, UNIVERSAL CROP PROTECTION (PTY) LTD. CANNOT ACCEPT RESPONSIBILITY FOR EXPORTED CROPS EXCEEDING THE IMPORT TOLERANCES OF OTHER COUNTRIES.**

**Hazard statements:**

Harmful if swallowed.
Causes mild skin irritation.
Causes serious eye damage.

- Handle with care.
- Toxic to bees and wildlife.
- Store in a cool, dry place away from food, feeds, fertilizers and other agricultural remedies.
- 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.

**Aerial application:**

Notify all inhabitants in the immediate area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate adjacent areas, e.g. crops, rivers, dams and wetlands.

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:

Wash hands thoroughly after handling. Do not touch eyes.
Do not eat, drink or smoke when using this product.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF SWALLOWED, IN EYES or skin irritation occurs: Get medical help.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Rinse mouth.
Dispose of content/container to suitable landfill in accordance with local regulations.

- Avoid contact with eyes and prolonged or repeated skin contact.
- Wash contaminated clothing after use.
- Wash with soap and water after use or accidental skin contact.
- Prevent drift of spray through the use of a suitable drift retardant (i.e., **MASTERLOCK®** (L 10496)) to prevent off target movement 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. Refer to the section “**Post Spray Equipment Cleaning**” below.
- **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 into pieces and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the bag to any other parties that may use it as container for foodstuffs.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

## FIRST AID TREATMENT

- 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. **Obtain medical attention if irritation occurs.**
- Eye contact: Immediately flush eyes with a stream of clean gently flowing water for 15 to 20 minutes, holding the eyelid(s) open. Remove contact lenses, if present, after the first 5 minutes. **Obtain medical attention.**
- Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.
- 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:

There is no specific antidote available. Treat symptomatically and supportively.

Relevant hazardous components	
Acetamiprid	20 %
Wetting agent	<5 %

**NOTE:** The ingredients listed above contribute to the overall GHS classification, the remaining ingredients do not have to be listed according to the South African Regulations for Hazardous Chemical Agents 2021, Regulation 14(b).

**In case of poisoning, call the following number:** +27 82 446 8946 (Griffon Poison Information Centre) or +27 861 555 777 (Poison Information Helpline).

**In case of a chemical spill call the following 24 Hr Transport / Spill emergency number:** +27 86 044 4411 (Hazcall24 / Client: Villa Crop Protection).

### **RESISTANCE WARNING**

**MAINTAIN 200 SP** is a group code 4A insecticide. Any insect population may contain individuals naturally resistant to **MAINTAIN 200 SP** and other group code 4A insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **MAINTAIN 200 SP** or any other group code 4A 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.
- Resistance against Russian Wheat Aphid has been confirmed in some areas.

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

### **Mode of action:**

**MAINTAIN 200 SP** contains **Acetamiprid**. **Acetamiprid** belongs to IRAC's mode of action group 4A. It is a broad-spectrum insecticide with ovicidal activity and is especially active against the larvae / nymphs of insect species but is also effective in controlling adult stages. **Acetamiprid** is a neonicotinoid compound used as a contact, stomach and systemic insecticide and acts as a nicotinic acetylcholine receptor agonist with nerve action, affecting the pest's central nervous system.

### **USE RESTRICTIONS**

**HONEYBEES:** Do not apply onto crops as a foliar spray when Honeybees are present. Prevent drift onto surrounding crops/areas where Honeybees may visit flowering plants.

- **DO NOT** mix with triazole fungicides – Bee toxicity is dramatically synergized.
- **DO NOT** apply the product to flowering crops or weeds if bees are visiting the treatment area.
- Minimize spray drift to reduce harmful effects on bees in habitats close to application sites.
- Do not exceed the number of applications per season as indicated in the recommendation table below to minimize development of resistance to **MAINTAIN 200 SP**. Do not alternate with insecticides with a similar mode of action (e.g., **Imidacloprid**).
- Do not apply to trees under stress conditions (e.g., caused drought, waterlogged soils, root- and stem rot, nematodes etc.) as systemic uptake, translocation and insecticidal activity will be affected adversely.
- Do not apply to plants covered with a layer of dust as systemic uptake of the product and contact with insects will be sub-optimal.
- Only treat trees and plants that are actively growing.
- During the post-harvest period, the systemic action and translocation of the product could be adversely affected. Therefore, do not apply the product during this period.

### **Directions for use in citrus:**

- Regular scouting is extremely important to establish pest status on which control measures can be based.
- Apply to the point of run-off (wet film), whether applied as full cover or "outside" cover. Improved uptake and residual control of the pest is obtained the longer the trees remain wet.

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

#### **NOTICE TO USER:**

Read the entire label before application. 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.

**Compatibility:**

**MAINTAIN 200 SP** is compatible with **MASTERLOCK®** (L 10496), **Technibuff Super**, **Villa 51**, **Link**, **Charge** or any other Villa approved adjuvant and most commonly used fungicides and insecticides. However, the compatibility with other products may be influenced by the formulation of the products involved, as well as the quality of the spray water. Since the quality of water may vary from farm to farm, a physical compatibility test should always be carried out prior to application. If the products are physically compatible, this does **NOT** imply that they will be biologically compatible (effective against the target pest), thus the registration holder will not take responsibility for ineffective control in these scenarios. Refer to all warnings, precautions, and directions for use on labels of complimentary products.

**MAINTAIN 200 SP** should be tested on a small scale when mixed with other pesticides, to ensure that it is safe to the crop.

**MAINTAIN 200 SP** is not compatible with alkaline spray water or products that will create an alkaline spray mixture. Use **Technibuff Super** to buffer alkaline spray liquids at pH 4.2 to 5.5.

**Mixing instructions:**

- Half fill the spray tank with water and add the required amount of **MAINTAIN 200 SP** to the water, while agitating. Ensure that the pH of the spray water is between 4.2 and 5.5 by using **Technibuff Super**.
- Ensure that all the lumps have dissolved before adding the rest of the water.
- Agitate **MAINTAIN 200 SP** during mixing and application.
- If used in mixtures with EC, EW or oil containing adjuvants, these products must be added last to the spray tank, when the tank is nearly filled with water to the final mixture volume.

**General directions:**

It is recommended that **MAINTAIN 200 SP** be used in a tank mix with **MASTERLOCK®** (L 10496), **Technibuff Super**, **Charge** or **Villa 51** to improve wetting and contact between spray mixture and waxy surfaces. This will also improve wetting of difficult to wet young flush and fruit, as well as enhancing penetration and translocation of the product. Only use suitable and correctly calibrated and spray equipment that is in good working order, to ensure good, even wetting of all plant parts.

**Deciduous Fruit Trees:**

- Apply **MAINTAIN 200 SP** as a high volume (HV) application to deciduous fruit trees. Calculate the rate per hectare according to the formula for High Volume Requirements HVR, using "*Unrath's Formula*" for "*Tree Row Volume*" (TRV).

$$\text{TRV} = \frac{\text{Tree Height (TH)} \times \text{Tree Width (TW)} \times 937}{\text{Distance between Rows (RW)}} = \text{HVR in litres per hectare}$$

\* Tree height and tree width should be measured during summer when trees are in full flush.

**Directions for application volumes at different growth stages and the calculation of rate per hectare, based on High Volume Requirements (HVR):**

<b>Growth Stage</b>	<b>Application Volume</b>
Bud break to Full Blossom	60 % of HVR
75 % Petal fall to (1) one month later (Mid-season)	80 % of HVR
Mid-season to Post harvest, before Leaf drop	100 % of HVR

$$\text{Rate per ha} = \frac{\text{HVR in } \ell/\text{ha} \times \text{Rate per 100 litres}}{100}$$

**Aerial application:**

Aerial application of **MAINTAIN 200 SP** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (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 to 40 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:** 30 to 35 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 micron is recommended. Limit the production of fine droplets, less than 150 micron (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 the 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.

### **Post Spray Equipment Cleaning**

It is essential to rinse the spray tank and all hoses with a 0.1 % solution of either calcium chloride or ammonium hydroxide or the recommended rate of **Protank® liquid cleaner** according to the product label. Allow this solution to stand in the spray equipment for 15 minutes; empty the spray equipment; repeat the rinsing with a 0.1 % solution of calcium chloride or ammonium hydroxide for 15 minutes; rinse all equipment with water. Nozzles and fitters must be cleaned individually. Rinse water and solution should be drained in a cesspool or drain where it will not contaminate any water source.

### **APPLICATION RATES**

**NOTE:** Always refer to, and observe the withholding periods listed under “WARNINGS” above.

<b><i>Crop / Pest</i></b>	<b><i>Dosage Rate</i></b>	<b><i>Remarks</i></b>
<b><u>Apples and Pears</u></b> Codling moth ( <i>Cydia pomonella</i> )	50 g / 100 ℓ water  <b>PLUS</b>  <b>Technibuff Super</b>	<b>Please note the withholding period.</b> Apply mid-November to mid-December (during the first or early second generation Codling moth) at 10 to 14 day intervals. <b>DO NOT</b> exceed two (2) applications per season. Apply <b>MAINTAIN 200 SP</b> as part of a Codling moth spray programme and incorporating other registered, non-related insecticides.
<b><u>Apples</u></b> Woolly aphid ( <i>Eriosoma lanigerum</i> )	50 g / 100 ℓ water  <b>PLUS</b>  <b>Technibuff Super</b>	<b>Suppression of Woolly Aphid.</b> Apply as a full cover spray when the pest starts to migrate upwards into the trees, or when first noticed. Apply a second treatment 2 weeks later. Effective complete coverage is essential.
<b><u>Pears</u></b> Mealy bug ( <i>Pseudococcus obscurus</i> )	50 g / 100 ℓ water  <b>PLUS</b>  <b>Technibuff Super</b>	Apply when crawlers start moving, but before they enter the calyx end of the fruit. Repeat the application if necessary 10 to 14 days later. <b>DO NOT</b> exceed two (2) applications per season. These sprays will also control Codling moth but should not exceed a spray interval of 14 days.

<b>Crop / Pest</b>	<b>Dosage Rate</b>	<b>Remarks</b>
<u><b>Cotton</b></u> Cotton Aphid ( <i>Aphis gossypii</i> )  Leaf hopper (Jassid) ( <i>Jacobiella fascialis</i> )	50 g to 75 g / ha  <b>PLUS</b>  <b>Technibuff Super</b>	Dosage rate depends on insect pressure. Apply two (2) applications approximately one week apart in 200 litres water per hectare, when economical threshold levels are exceeded. The crop must be actively growing and not be subjected to any type of stress.
<u><b>Cucurbits</b></u> (including Butternuts, Cucumbers, Patty Pans, Melons, Marrows, Pumpkins, Squash)  Green peach aphid ( <i>Myzus persicae</i> ) Whiteflies ( <i>Bemisia tabaci</i> )	60 g / 100 ℓ water  <b>PLUS</b>  20 ml / 100 ℓ water  <b>Charge</b>	Apply the first application as soon as infestation is established. Apply as a full cover spray. The spray volume depends on the plant size and canopy density. Thorough coverage of the leaves is important. Apply according to infestation level with a maximum of three (3) applications per season at 10-day intervals.
<u><b>Potatoes</b></u> Green peach aphid ( <i>Myzus persicae</i> )  Whitefly ( <i>Bemisia tabaci</i> )	50 g / ha  <b>PLUS</b>  (50 ml / 100 ℓ water)  <b>Villa 51</b>	<u>Ground foliar application:</u> Apply in 500 litres water. Apply as a foliar spray when infestations reach a treatment (or economic) threshold. Even and thorough coverage is essential.  If repeated applications are required, alternate with products from a different mode of action group. <b>DO NOT exceed</b> three (3) treatments per season.
American Leafminer ( <i>Lyriomyza trifolii</i> )	50 g / ha  <b>PLUS</b>  (50 ml / 100 ℓ water)  <b>Villa 51</b>	Apply first treatment as soon as the puncture marks appear on the bottom leaves: Apply in 500 to 1000 litres water per hectare. Ensure good coverage of all foliage as it is important for optimal efficacy. Apply up to three (3) treatments at 7-day intervals.
<u><b>Rooibos tea</b></u> Leafhopper ( <i>Molopopterus theae</i> )	50 g to 65 g / ha	Apply the higher rate under high Leafhopper infestation pressure. Apply the first application early in October.  Follow with a second application after four (4) weeks later before the end of November.

Crop / Pest	Dosage Rate	Remarks
<p><b>Barley, Wheat &amp; Oats</b> (Summer &amp; Winter rainfall areas – dry land)</p> <p>Brown ear aphid (<i>Sitobion avenae</i>)</p> <p>Common wheat aphid (<i>Schizaphis graminum</i>)</p> <p>Birdcherry-oat aphid (<i>Rhopalosiphum padi</i>)</p>	<p><b>WARNING</b> <b>MAINTAIN 200 SP</b> should only be applied when the crop canopy is still open (before elongation) and not later when the canopy is too dense, and droplets cannot reach the target area.</p> <hr/> <p>50 g / ha</p> <p><b>PLUS</b></p> <p>(50 ml / 100 ℓ water)</p> <p><b>Villa 51</b></p>	<p>Ground application: Apply in at least 120 litres water per hectare when pest is observed.</p> <p>Good coverage of all plant parts is essential.</p> <p>Repeat when necessary but do not apply later than the ear emergence stage of wheat and barley.</p>
<p>Russian wheat aphid (<i>Diuraphis noxia</i>)</p>	<p>60 g / ha</p> <p><b>PLUS</b></p> <p>(50 ml / 100 ℓ water)</p> <p><b>Link</b></p>	
<p><b>Canola</b> (Winter rainfall areas – dry land) Cruciferae / Cabbage aphid (<i>Brevicoryne brassicae</i>)</p>	<p>50 g / ha</p> <p><b>PLUS</b></p> <p>(50 ml / 100 ℓ water)</p> <p><b>Villa 51</b></p>	<p>Ground application: Apply in not less than 120 litres water per hectare when pest is observed. Good coverage of all plant parts is essential. Repeat when necessary but do not apply after flowering.</p>
<p><b>Table Grapes</b> Mealy bug (<i>Planococcus ficus</i>)</p>	<p>50 g / 100 ℓ water</p> <p><b>PLUS</b></p> <p>a registered acidifier / buffer</p>	<p>Monitor for Mealybug males using pheromone traps. Once the threshold have been reached, wait for crawler movement and apply a single treatment when Mealybug crawlers are observed on the bases of shoots or leaves.</p> <p>Continue monitoring and follow-up with an alternative registered product, with a different mode of action, if required. The use of <b>MAINTAIN 200 SP</b> in summer must be preceded by a winter program against Mealybug with a registered contact insecticide.</p>



<b>Crop / Pest</b>	<b>Dosage Rate</b>	<b>Remarks</b>
<b>Citrus</b> (including Lemons, Limes, Mandarins, Grapefruit, Oranges, Tangerines)  Citrus thrips ( <i>Scirtothrips aurantii</i> )  <u>Nurseries and non-  bearing transplanted trees</u>	40 g / 100 ℓ water	Outside cover application. Repeat when infestation level increases again.
<u>Bearing trees</u> (excluding lemons)	40 g / 100 ℓ water	Preventative outside cover treatment at or shortly after 100 % petal fall when 2 % of the fruit are infested. Repeat when threshold is exceeded again, but not later than six (6) weeks after first application.
Mealybugs (All species)  <u>Nurseries and non-  bearing transplants</u>	40 g / 100 ℓ water	Full cover spray when infestation is noticed. Repeat application when infestation level increases again.
<u>Bearing trees</u> (excluding lemons)	50 g / 100 ℓ water	Full cover spray when pest is noticed at 100 % petal fall. Repeat if necessary within six (6) weeks.
Citrus red scale ( <i>Aonidiella aurantii</i> )  <u>Nurseries and non-  bearing transplants</u>	50 g / 100 ℓ water	Full cover spray when infestation is noticed. Repeat application when infestation increases again.
<u>Bearing trees</u> (excluding lemons)	50 g / 100 ℓ water	Apply as a full cover spray to branch framework and foliage when the pest is noticed at 100 % petal fall. If scouting indicates such, repeat within six (6) weeks or apply another registered product.
Aphids ( <i>Aphis gossypii</i> , <i>Toxoptera citricida</i> )  Leaf miner ( <i>Phyllocnistis citrella</i> )  Psylla ( <i>Trioza erythrae</i> )	40 g / 100 ℓ water	(i) Nursery and non-bearing trees. Outside cover application, repeat when the threshold is exceeded again. (ii) Bearing trees ( <u>excluding lemons</u> ). Outside cover application when control is required during the first 6 weeks of petal fall.

Crop / Pest	Dosage Rate	Remarks
<p><b>Sugarcane</b> Thrips (<i>Fulmekiola serrata</i>)</p>	<p>1.5 kg / ha</p> <p><b>PLUS</b></p> <p>(20 ml / 100 l water)</p> <p><b>Charge</b></p>	<p><u>Suppression of Thrips.</u> <u>Ground application:</u> Apply treatment when at least 6 to 8 green leaves are present. Apply in a minimum volume of 250 litres water per hectare as soon as pest is noticed. The use of a twin flat fan type nozzle is recommended. Direct the spray to the centre of the developing tillers. <u>Aerial application:</u> Apply in at least 30 litres water per hectare. The addition of a registered drift retardant adjuvant, to minimize spray drift to any area not under treatment, is strongly recommended.</p>
<p>Yellow Sugarcane Aphid (<i>Sipha flava</i>)</p>	<p>1.0 kg / ha</p> <p><b>PLUS</b></p> <p>(20 ml / 100 l water)</p> <p><b>Charge</b></p>	<p><u>Ground application:</u> Apply treatment when the pest is first noticed. Apply in a minimum volume of 250 litres water per hectare. The use of a twin flat fan type nozzle is recommended. Direct the spray to the centre of the developing tillers. <b>Do not apply more than two (2) applications per growing season to avoid resistance development.</b></p>
<p><b>Stone fruit</b> (including Peaches, Plums, Prunes, Nectarines, Apricots, Cherries)</p> <p>Green peach aphid (<i>Myzus persicae</i>)</p>	<p>25 g / 100 l water</p>	<p>Apply as soon as monitoring of orchards indicate the first signs of aphid infestation. A follow-up treatment may be required in the case of a heavy infestation, or if the leaves are already curled. Apply as a high volume application based on the Tree-Row-Volume formula (generally, a water volume in the range of 1500 to 2000 litres per hectare will be required). Please refer to 'Deciduous Fruit Trees' above. <b>NOTE</b> The systemic activity of <b>MAINTAIN 200 SP</b> during or after application, will be reduced where trees are not growing vigorously or under stress conditions (drought, waterlogged, nematode infestations, etc)</p>
<p><b>Tobacco</b> Tobacco whitefly (<i>Bemisia tabaci</i> Biotype B)</p>	<p>50 g / 100 l water</p> <p><b>PLUS</b></p> <p>a registered acidifier / buffer</p>	<p><b>Please note the withholding period.</b> Apply at first appearance of pest in a sufficient spray volume, to ensure good coverage of the target area. Use a minimum of 200 liters water per hectare when applying by ground, depending on the crop growth stage and density. If necessary, apply a second treatment seven (7) days later.  If the pest persists, apply another registered, non-related insecticide (not IRAC Group 4A) to prevent development of resistance.  Do not exceed two (2) applications with <b>MAINTAIN 200 SP</b> per season.</p>

<b>Crop / Pest</b>	<b>Dosage Rate</b>	<b>Remarks</b>
<b>Tomatoes</b> Tobacco whitefly ( <i>Bemisia tabaci</i> )  American leafminer ( <i>Liriomyza trifolii</i> )  <u>Aphids</u> Green peach aphid ( <i>Myzus persicae</i> )  Potato aphid ( <i>Macrosiphum euphorbiae</i> )	50 g / 100 ℓ water  <b>PLUS</b> a registered acidifier / buffer	<b>Please note the withholding period.</b>  Apply at first appearance of pest in a sufficient spray volume, to ensure good coverage of the target area. <b>If necessary, apply a second treatment seven (7) days later.</b>  If the pest persists, apply another registered, non-related insecticide (not IRAC Group 4A) to prevent development of resistance.
<b>Tree Nuts</b> (including Macadamias, Almonds, Cashew nuts, Chestnuts, Hazelnuts, Pecan nuts, Pistachio nuts, Walnuts)  Thrips  Macadamia nut borer (MNB) ( <i>Thaumatotibia</i> = <i>Cryptophlebia</i> <i>batrachopa</i> )	50 g / 100 ℓ water  <b>PLUS</b> (100 ml / 100 ℓ water) <b>Masterlock®</b>	<b>Do NOT apply when Bees are present.</b>  Monitor for the pest and start applications at the first sign of pest presence. Apply as a full cover spray to the point of run-off.  Apply a second application seven (7) days later.  Do not exceed two (2) applications with <b>MAINTAIN 200 SP</b> per season.  <b>MAINTAIN 200 SP is only active against juvenile / nymph stages of the target pests.</b>

Consult the **Masterlock®**, **Technibuff Super**, **Villa 51**, **Charge** and **Link** labels for **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE**.

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

- **VILLA 51** (L 8050 / W 130454 / N-AR 1090) = **WEN 51** (L 8315),
- **TECHNIBUFF SUPER** (L 9209) = **AQUABUFF PLUS** (L 9210),
- **LINK** (L 8675) = **DIRECT** (L 8680) and
- **CHARGE** (L 9100 / N-AR 2241 / W 130953) = **TECHNIWET SUPER** (L 9239).

**VILLA 51, WEN 51, LINK, TECHNIBUFF SUPER** and **AQUABUFF PLUS** are registered products of **UNIVERSAL CROP PROTECTION (PTY) LTD.**

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

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