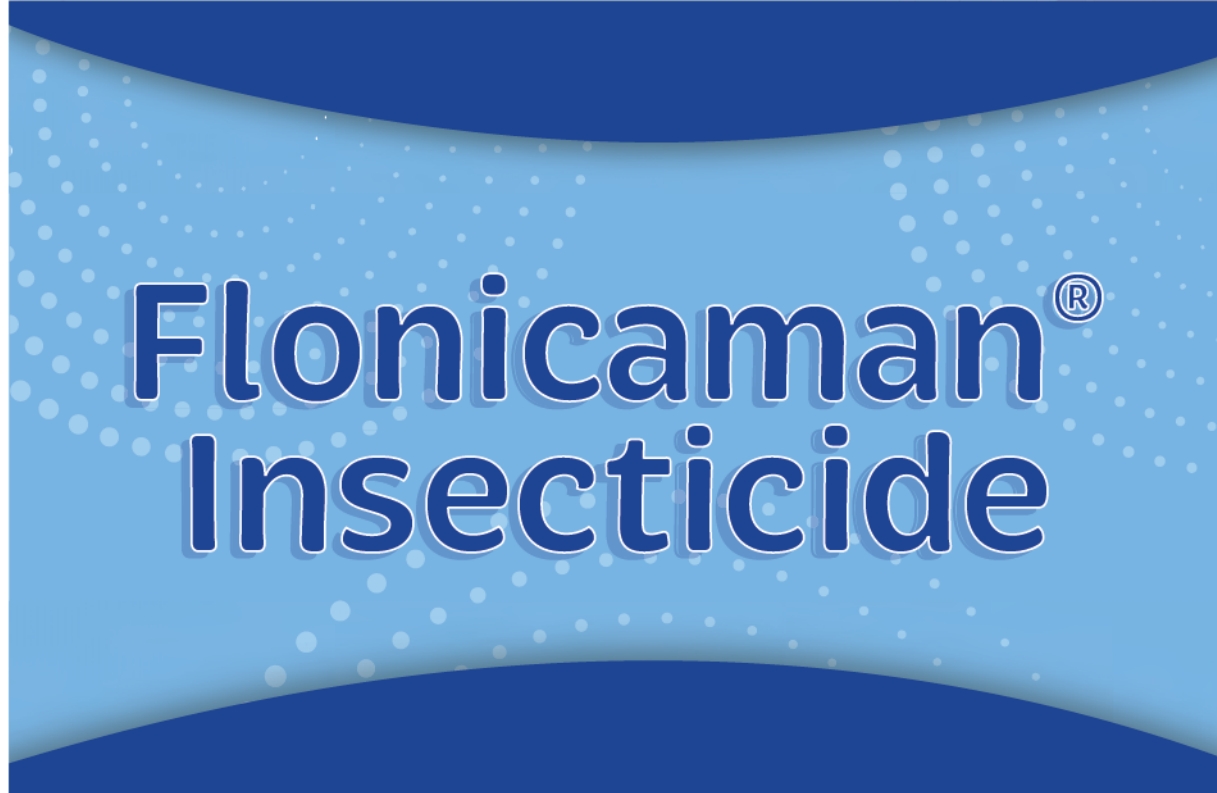


# POISON

**KEEP OUT OF REACH OF CHILDREN**

**READ SAFETY DIRECTIONS BEFORE OPENING OR USING**



**Active Constituent: 500g/kg FLONICAMID**

**GROUP**

**29**

**INSECTICIDE**

For the control of aphids and mealybug in apples, pears and nursery stock; for the control of aphids and mirids in cotton; for the control of aphids and silverleaf whitefly in cucurbits; for the control of aphids in potatoes; for the control of whitefly in tomatoes; for the control of aphids, whiteflies and green mirids in strawberries as per the directions for use table.



**7 WORLDS AG**

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**CONTENTS 1kg, 5kg, 10kg**

## **DIRECTIONS FOR USE**

### **RESTRAINTS**

#### **SPRAY DRIFT RESTRAINTS**

Specific definitions for terms used in this section of the label can be found at [www.apvma.gov.au/spraydrift](http://www.apvma.gov.au/spraydrift)

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift.

The buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply by airblast equipment unless the following requirements are met:

- DO NOT direct the spray above trees during airblast applications.
- TURN OFF outward pointing nozzles at row ends and outer rows during airblast applications.

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a MEDIUM spray droplet size category.

DO NOT apply by aircraft unless the following requirements are met:

- Spray droplets not smaller than a MEDIUM spray droplet size category.
- For maximum release heights above the target canopy of 3 m or 25% of wingspan or 25% of rotor diameter whichever is the greatest, minimum distances between the application site and down wind sensitive areas (see 'Buffer zones' section of the following table titled 'Buffer zones for aircraft') are observed.

#### **Buffer zones for aircraft**

| <b>Type of aircraft</b> | <b>Mandatory downwind buffer zones</b> |
|-------------------------|--|
|                         | <b>Vegetation areas</b>                |
| Fixed-wing              | 20 metres                              |
| Helicopter              | Not required                           |

| <b>CROP</b>  | <b>PEST</b>  | <b>RATE</b>   | <b>WHP</b> | <b>CRITICAL COMMENTS</b>  |
|--|--|---|------------|---|
| <b>Tree crops</b>  |  |   |            |   |
| Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. Refer to Application section of the label. |  |   |            |   |
| <b>Apples</b>  | Woolly Apple Aphid ( <i>Eriosoma lanigerum</i> )                                     | <b>Dilute Spray:</b><br>10 –14 g/100 L water<br><br><b>Concentrate spray:</b><br>Refer to Application section | H: 21 days | Spray at the first signs of infestation.<br>Water quantities to be used depend on size of trees, development stage of trees and spraying equipment used. Use the higher rate under high pest pressure.<br>A minimum re-treatment interval of 2 weeks must be observed.<br>Do not apply more than 3 applications.<br>Where applicable, use the higher rate under high pest pressure or to provide longer residual control.   |
|  | Tuber Mealybug ( <i>Pseudococcus viburni</i> )                                       | <b>Dilute Spray:</b><br>14 –20 g/100 L water<br><br><b>Concentrate spray:</b><br>Refer to Application section |            |   |
| <b>Pears</b>   | Longtailed Mealybug ( <i>Pseudococcus longispinus</i> )                              | <b>Dilute Spray:</b><br>14 –20 g/100 L water  |            | Longtailed Mealybug: Concentrate spraying is not recommended because thorough coverage is essential for good control of Longtailed Mealybug.  |
| <b>Cotton</b>  | Cotton Aphid ( <i>Aphis gossypii</i> )<br>Green Mirid ( <i>Creontiades dilutus</i> ) | 100–140 g/ha  | H: 7 days  | Apply to an aphid population in the early stages of development before honeydew is evident or aphid damage occurs. Thorough spray coverage is essential. This product should be used according to the Cotton Industry’s Best Management Practices Manual and its associated Spray and Drift Management Plan.<br>If mirids are present, use the higher rate.<br>If repeat applications are required, alternate with products from a different insecticide group as per current Cotton Industry Insecticide Resistance Management Strategy.<br>This use is also subject to a CropLife Insecticide resistance management strategy.<br>DO NOT apply more than 2 sprays per crop per season. |
| <b>Cucurbits</b><br>Including:<br>Cucumber<br>Pumpkin<br>Rockmelon<br>Squash<br>Watermelon<br>Zucchini   | Green Peach Aphid ( <i>Myzus persicae</i> )<br>Melon Aphid ( <i>Aphis gossypii</i> ) | 100– 140 g/ha   | H: 1 day   | Apply at first sign of aphid infestation.<br>A minimum re-treatment interval of 2 weeks must be observed.<br>Do not apply more than 3 applications.<br>Where applicable, use the higher rate under high pest pressure.  |
|  | Silverleaf Whitefly ( <i>Bemisia tabaci</i> , B-type)                                | 200 g/ha plus Hasten at 2 mL /100 L water   |            |   |

| <b>CROP</b>                                      | <b>PEST</b>  | <b>RATE</b>               | <b>WHP</b> | <b>CRITICAL COMMENTS</b>   |
|--|--|---------------------------|------------|--|
| <b>Potatoes</b>                                  | Green Peach Aphid<br>( <i>Myzus persicae</i> )<br>Melon Aphid<br>( <i>Aphis gossypii</i> )<br>Potato Aphid<br>( <i>Macrosiphum euphorbiae</i> )                  | 140–200 g/ha              | H: 14 days | Apply at first sign of aphid infestation.<br>A minimum re-treatment interval of 2 weeks must be observed.<br>Do not apply more than 2 applications.<br>Use the higher rate under high pest pressure.   |
| <b>Strawberries–<br/>Field and<br/>Protected</b> | APHIDS<br>Incl. Green peach aphid<br>( <i>Myzus persicae</i> )<br>Whiteflies<br>( <i>Bemisia tabaci</i> type B)<br>Green Mirid<br>( <i>Creontiades dilutus</i> ) | 200 g/ha                  | H: 1 day   | – Apply as foliar spray at the first sign of insect pest infestation.<br>– Apply in sufficient water to provide thorough and uniform coverage of the plant.<br>– DO NOT apply more than three (3) applications per crop, with a minimum 7-day retreatment interval between applications.<br>– Refer to the Protections section for bees.   |
| <b>Tomatoes<br/>(protected situations)</b>       | Greenhouse Whitefly<br>( <i>Trialeurodes vaporariorum</i> )<br>Silverleaf Whitefly<br>( <i>Bemisia tabaci</i> )  | 200 g/ha or<br>20 g/100 L | H: 1 day   | Closely monitor adult whitefly numbers and apply control measures before adult populations reach high levels.<br>Use Flonicaman either as a second line of defence to support biocontrol strategies in an IPM program, or where IPM is not in use, then curatively at any time during the crop when whitefly occurs and is threatening to cause economic damage.<br>Apply a maximum of three (3) foliar applications per year, using calibrated high volume boom sprayer or similar equipment, at a minimum 7-day retreatment interval.<br>Use spray volume of 400–500 L/ha after transplant, increasing to 1,000 L/ha for full canopy crops.<br>It is essential to achieve good penetration of the crop canopy to ensure thorough coverage of all developing fruit, foliage and stems, and particularly the underside of leaves, as nymphs (and adults) predominantly inhabit the underside of leaves.<br>DO NOT add adjuvant/surfactant to diluent.<br>DO NOT apply more than two (2) consecutive applications of insecticides that have the same Mode of Action (MoA) within and between seasons to avoid resistance. |

| CROP   | PEST  | RATE   | WHP | CRITICAL COMMENTS   |
|--|---|--|-----|---|
| <b>NURSERY STOCK (NON-FOOD)</b><br>including Seedlings and Plugs, potted colour, trees and shrubs, foliage plants, palms, grasses and fruit trees (non-bearing). | APHIDS<br>( <i>Aphidoidea</i> )   | 10–20 g per 100 L.<br>(plus addition of adjuvant according to label rates) | –   | – Apply as foliar spray at the first sign of insect pest infestation.<br>– Apply in sufficient water to provide thorough and uniform coverage of the plant.<br>– Use the higher rate under high pest pressure.<br>– Maximum of three (3) applications per year, with a minimum re-treatment interval of 14 days.<br>– Refer to the Protections section for bees.<br><br><b>To Avoid Crop Damage:</b><br>This product has NOT been fully evaluated for crop safety in nursery stock. It is essential therefore that users treat a small area of the crop prior to a whole crop treatment and monitor any phytotoxic effects that will compromise production goals. |
|  | MEALYBUGS<br>( <i>Pseudococcidae</i> )  |  |     |   |
|  | MIRIDS<br>( <i>Miridae</i> )<br>Silverleaf Whitefly<br>( <i>Bemisia tabaci</i> )  |  |     |   |
|  | Suppression Only<br>THRIPS<br>( <i>Thysanoptera</i> )<br>Western Flower Thrips<br>( <i>Frankliniella occidentalis</i> ) |  |     |   |

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

**WITHHOLDING PERIODS (WHP)**

**Harvest (H)**

**Apples, Pears:**

**DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION**

**Potatoes:**

**DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION**

**Cotton:**

**DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION**

**Cucurbits, Strawberries, Tomatoes:**

**DO NOT HARVEST FOR 1 DAY AFTER APPLICATION**

**Grazing**

**Apples, Cucurbits, Pears, Potatoes:**

**DO NOT ALLOW LIVESTOCK TO GRAZE IN TREATED AREAS.**

**Tomatoes:**

**DO NOT GRAZE TREATED AREA OR CUT TREATED AREA FOR LIVESTOCK FEED.**

**Cotton:**

**DO NOT FEED COTTON FODDER, STUBBLE OR TRASH TO LIVESTOCK.**

## **EXPORT OF TREATED PRODUCE**

Growers should note that maximum residue levels (MRLs) or import tolerances may not exist in all markets for produce treated with Flonicaman Insecticide. In some situations export requirements may be met by limiting application number and/or imposing a longer withholding period than specified above. If you are growing produce for export, please check with Grochem Australia Pty Ltd for the latest information on MRLs and import tolerances before using Flonicaman Insecticide.

## **GENERAL INSTRUCTIONS**

### **Mixing**

Add the required amount of Flonicaman Insecticide to clean water in half filled spray tank with the agitator or by-pass in operation. Maintain agitation while filling tank with remainder of water. Agitation must also be maintained throughout the spray operation.

### **Application**

To be effective Flonicaman Insecticide requires thorough spray coverage. Ensure that equipment is properly calibrated to give an even distribution at the correct volume. Thorough coverage of the target area is essential. Apply in sufficient water, and using suitable application parameters (nozzles, pressure, boom height, speed, etc) to ensure thorough and even coverage. Use only MEDIUM spray droplets. Adjust water volumes according to the crop growth stage.

**Apples:** The same quantity of Flonicaman Insecticide per hectare should be used when spraying by either the dilute or concentrate method.

**Dilute spraying (Apples and Pears):** Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off. The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice.

Add the amount of Flonicaman Insecticide specified in the Directions for Use table for each 100 L of water. Spray to the point of run-off. If water volume exceeds 1000 L/ha, total rate of Flonicaman Insecticide must not exceed 200 g/ha. The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.

**Concentrate spraying (Apples):** Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of runoff) and matched to the crop being sprayed. Apply a minimum of 500 L water/ha. Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume. Determine an appropriate dilute spray volume (see Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate. The mixing rate for concentrate spraying can then be calculated in the following way:

### **EXAMPLE ONLY**

1. Dilute spray volume as determined above: for example 1000 L/ha
2. Your chosen concentrate spray volume: for example 500 L/ha
3. The concentrate factor in this example is 2X (i.e.  $1000 \text{ L} \div 500 \text{ L} = 2$ )
4. If the dilute label rate is 14 g/100 L, then the concentrate rate becomes  $2 \times 14$ , which is 28 g/100 L of concentrate spray.

The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows. For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

### **Compatibility**

For information on the compatibility of Flonicaman Insecticide with other products, contact your local Grochem representative.

### **INSECTICIDE RESISTANCE WARNING**

|              |           |                    |
|--------------|-----------|--------------------|
| <b>GROUP</b> | <b>29</b> | <b>INSECTICIDE</b> |
|--------------|-----------|--------------------|

For insecticide resistance management, Flonicaman Insecticide is a Group 29 insecticide. Some naturally occurring insect biotypes resistant to Flonicaman Insecticide and other Group 29 insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Flonicaman Insecticide and other Group 29 insecticides are used repeatedly. The effectiveness of Flonicaman Insecticide on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Grochem Australia Pty Ltd accepts no liability for any losses that may result from the failure of Flonicaman Insecticide to control resistant insects. Flonicaman Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, Grochem Australia Pty Ltd representative or local agricultural department agronomist.

### **PRECAUTIONS**

#### **Re-entry period**

DO NOT enter treated areas until the spray has dried unless wearing cotton overalls buttoned to the neck and wrists (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

#### **PROTECTION OF HONEY BEES AND OTHER INSECT POLLINATORS**

Flonicaman Insecticide may have adverse effects on honey bees for a short period after application. DO NOT spray any plants in flower where bees are foraging. Risk to bees is reduced by spraying in the early morning and late evening when bees are not foraging.

#### **PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

#### **PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS**

DO NOT apply under weather conditions, or from spraying equipment that may cause drift onto nearby plants/crops, cropping lands or pastures.

### **STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

Triple-rinse container before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling break, crush or puncture and deliver empty container to an approved waste management facility. If an approved facility is

not available, bury the empty container 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots in compliance with relevant Local, State or Territory government regulations. Do not burn empty containers or product. Do not re-use empty container for any other purpose.

### **SAFETY DIRECTIONS**

Will damage the eyes. Avoid contact with eyes. When opening the container, preparing the product for use and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and goggles. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash goggles and contaminated clothing.

### **FIRST AID**

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 13 11 26; New Zealand 0800 764 766.

### **SAFETY DATA SHEET**

Additional information is listed in the Safety Data Sheet Flonicaman which is available from Grochem Australia Pty Ltd on request or the Grochem website.

### **LIMIT OF LIABILITY**

1. Grochem Australia accepts responsibility for the consistent quality of the product.
2. Grochem Australia accepts no responsibility whatsoever for any damage, injury or loss following purchase and use of this product.
3. The extent of liability of Grochem Australia is limited to the replacement of goods or a refund on the price paid. This being conditional upon a claim being made in writing and within 30 days of delivery/receipt of product.
4. This product must also be used in strict accordance with the directions as detailed on this label. The buyer accepts and uses this material with an understanding of the above conditions.

APVMA Approval No.: 94384/142288

#### **Harmful if swallowed. Suspected of damaging fertility or the unborn child .**

Keep out of reach of children. Read carefully and follow all instructions. Do not handle until all safety precautions have been read and understood. Wash hands, face and all exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing including eye/face protection and suitable respirator.



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