

# POISON

KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# Mavrik® Aquaflow

## Insecticide

ACTIVE CONSTITUENT: **240 g/L TAU-FLUVALINATE**

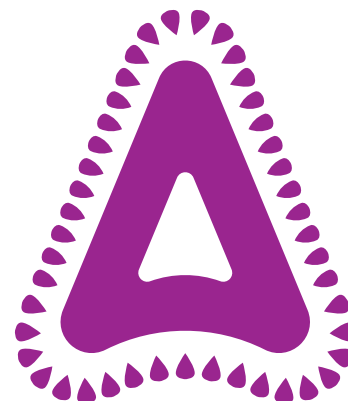
SOLVENT: 94 g/L ETHYLENE GLYCOL

GROUP **3A** INSECTICIDE

For use in ornamentals and certain fruit, tree nut, vegetable and vine crops as specified in the Directions for Use table

Formulation type  
Oil-in-water  
Emulsion

**EW**



**ADAMA**

adama.com

CONTENTS: 500 mL - 20 L

### DIRECTIONS FOR USE

**RESTRAINT:** DO NOT apply by aircraft.

### 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. 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.

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Asparagus	Garden Weevil ( <i>Phlyctinus callosus</i> )	All States	High Volume 40 mL per 100 L water	1 day	Apply after spear emergence at up to 500 L spray solution/ha. Daytime spraying is effective but superior control may be achieved at night. DO NOT apply insecticide to spears more frequently than an interval of 7 days. Repeat applications as required, depending on pest pressure. Controlling weevils in asparagus fern may reduce abundance the following season. See note below for insecticide resistance management.
Cauliflower	Native Budworm ( <i>Helicoverpa punctigera</i> ), Cabbage Moth ( <i>Plutella xylostella</i> ), Cabbage White Butterfly ( <i>Pieris rapae</i> )		High Volume 30 - 40 mL per 100 L water	2 days	Commence spraying at first signs of insect infestation. Use the low rate to control low insect populations. DO NOT treat <i>Helicoverpa</i> caterpillars that are larger than 5 mm in length. <b>Caterpillar Insect Control</b> Apply when "low" to "moderate" egg laying is detected, larvae are just about to hatch and small caterpillars (up to 5 mm) are present. Apply as a thorough spray. Repeat applications at 7 - 14 day intervals depending on pest infestation.
Tomatoes	Corn Earworm/Tomato Grub ( <i>Helicoverpa armigera</i> ), Green Peach Aphid ( <i>Myzus persicae</i> )		OR Low Volume 300 - 400 mL per ha		<b>Ornamentals</b> Where foliage may be difficult to wet due to dust, hairiness or waxy leaves and where mite control is required, the addition of a surfactant is recommended. Thorough coverage is essential.
Ornamentals, Flowering Plants, Shrubs (Non-Edible)	Native Budworm ( <i>Helicoverpa punctigera</i> ), Corn Earworm ( <i>Helicoverpa armigera</i> ), Two-spotted Mite ( <i>Tetranychus urticae</i> )		3 or 4 mL per 10 L water	Not required	Apply early before mite population is established. Refer to RESISTANCE MANAGEMENT in the GENERAL INSTRUCTIONS section.

## TREE AND VINE CROPS

RATE					CRITICAL COMMENTS	
In the following table, all rates are given for dilute spraying For concentrate spraying, refer to Mixing/Application Section.						
CROP	PEST	STATE	RATE	WHP		
Apples	Apple Dimpling Bug ( <i>Campylomma liebknecht</i> ), Plague Thrips ( <i>Thrips imaginis</i> )	All States	20 mL per 100 L water	Not required		For all uses in this table: Apply by dilute or concentrate spraying equipment. Refer to the sections “Dilute Spraying” and “Concentrate Spraying” in the General Instructions. Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. The product presents a low hazard to bees, however, under good pesticide application practices application is preferred when bees are not actively foraging. MAVRIK® AQUAFLOW will not control Western Flower Thrip (Frankliniella occidentalis). Use caution when making applications if Western Flower Thrips are present.
Cherries, Nectarines, Peaches, Plums	Plague Thrips ( <i>Thrips imaginis</i> )					Apply early blossom from pink stage to 20 % blossom. DO NOT apply after 20 % of blossoms have opened. Best prevention of Apple Dimpling Bug and Thrips damage is achieved by spraying at commencement of flowering. Apply a maximum of 2 non-consecutive sprays of MAVRIK® AQUAFLOW per season, as early as possible during flowering. Will disturb Integrated Mite Control. See General Instructions.
Table Grapes						Apply just prior to or at commencement of flowering when a significant population of Thrips can be found. A second application may be required depending on pest pressure 10-14 days later. This second application MUST NOT be applied outside the blossom period.
Macadamias	Macadamia Lace Bug ( <i>Ulonemia concava</i> or <i>Ulonemia decoris</i> )			21 days	Monitor crops from early flowering. Apply up to two applications of MAVRIK® AQUAFLOW per season when crop monitoring indicates local thresholds are reached. Concentrate spraying is not recommended. Apply as a dilute (high volume) spray to the point of runoff, ensuring thorough coverage of all racemes, foliage and macadamia nuts. Water volumes typically range from 1000 to 2000 L/ha, with higher spray volumes recommended on larger/denser canopies. Addition of a 600 g/L non-ionic adjuvant at 25 mL/ 100 L, although not critical, may improve control.	

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

### WITHHOLDING PERIODS

**APPLES, CHERRIES, TABLE GRAPES, NECTARINES,**

**PEACHES, PLUMS AND ORNAMENTALS: NOT REQUIRED WHEN USED AS DIRECTED.**

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

**CAULIFLOWER AND TOMATOES: DO NOT HARVEST FOR 2 DAYS AFTER APPLICATION.**

**MACADAMIAS: DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.**

### TRADE ADVICE

**Export of treated produce: MRLs may not be established in export markets. Check with your Industry Association or Adama Australia prior to using this product on crops destined for export.**

### GENERAL INSTRUCTIONS

MAVRIK® AQUAFLOW is highly toxic to predatory mites. DO NOT use in areas where integrated mite control is being practiced.

### MIXING

Shake well before use. Add the required quantity of MAVRIK® AQUAFLOW to clean water in the spray tank while stirring or while agitators are in motion. Maintain agitation during spraying.

### APPLICATION

#### **Cauliflower, Tomatoes and Ornamentals**

Use standard low volume boom or high volume spray equipment calibrated to give the required rates.

**High Volume:** Use 600 - 1,100 L water per hectare, depending on plant size.

**Low Volume:** Use sufficient water to give adequate penetration and coverage.

**Asparagus:** Up to 500 L spray solution/ha may be applied with High Volume spray equipment.

#### **Special Mixing and Application Instructions for Tree Crops and Vines: Apples, Cherries, Peaches, Plums, Nectarines, Macadamias and Grapes Dilute Spraying**

- 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 product specified in the Directions for Use table

for each 100 L of water. Spray to the point of run-off.

- The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.
- Apply in 1000 - 2000 L/ha

#### **Concentrate Spraying**

- 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 run-off) and matched to the crop being sprayed.
- 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.
- Apply in 400 - 1500 L/ha.

• 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 2000 L/ha
  2. Your chosen concentrate spray volume: For example 1000L/ha
  3. The concentration factor in this example is :  
 $2 \times (\text{i.e. } 2000 \text{ L} \div 1000 \text{ L} = 2)$
  4. If the dilute label rate is 20 mL/100 L, then the concentrate rate becomes  $2 \times 20$ , that is 40 mL/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.

## RESISTANCE MANAGEMENT:

**Helicoverpa spp.:** *Helicoverpa armigera* resistance has been recorded in Northern New South Wales and Queensland. To help contain pyrethroid resistance in *Helicoverpa armigera*, the Summer Crop Insecticide Strategy as developed by the Queensland Department of Primary Industries and NSW Department of Primary Industries should be adhered to. Failure to observe the strategy may result in widespread resistance affecting the future viability of Summer cropping.

**Two-spotted Mite (*Tetranychus urticae*):** To help avoid resistance apply no more than two MAVRIK® AQUAFLOW sprays in succession, then change to a miticide from another chemical group. Preferably apply miticides from two different chemical groups before returning to a MAVRIK® AQUAFLOW spray again.

**Garden Weevil (*Phlyctinus callosus*):** To help avoid resistance, use an insecticide from a different activity group either within or between seasons. Including insecticides from another activity group, do not spray any crop more than six times per season, including no more than four times to asparagus spears.

## INSECTICIDE RESISTANCE WARNING

For insecticide resistance management MAVRIK® AQUAFLOW Insecticide is a Group 3A insecticide. Some naturally occurring insect biotypes resistant to MAVRIK® AQUAFLOW and other Group 3A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if MAVRIK® AQUAFLOW or other Group 3A insecticides are used repeatedly. The effectiveness of MAVRIK® AQUAFLOW on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Adama Australia accepts no liability for any losses that may result from the failure of MAVRIK® AQUAFLOW to control resistant insects. MAVRIK® AQUAFLOW may be subject to specific resistance management strategies. For further information contact your local supplier, Adama representative or local agricultural department agronomist.

GROUP	<b>3A</b>	INSECTICIDE
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## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Toxic to fish. DO NOT contaminate streams, rivers or watercourses with this chemical or used containers.

## PROTECTION OF HONEY BEES AND OTHER INSECT POLLINATORS

Bee safety: The product presents a low hazard to bees, however, under good pesticide application practices application is preferred when bees are not actively foraging.

## STORAGE AND DISPOSAL

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

500 mL containers:

Triple rinse containers 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 packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 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.

**drumMUSTER** containers: This container can be recycled if it is clean, dry, free of visible residues and has the **drumMUSTER** logo visible. Triple rinse container for disposal. Dispose of any rinsate by adding it to the spray tank. Do not dispose of undiluted chemical on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any **drumMUSTER** collection or similar container management program site. The cap should not be replaced but may be taken separately. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the 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.

## SAFETY DIRECTIONS

Will irritate the eyes and skin. Avoid contact with eyes and skin. When using the product wear face shield or goggles.

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash face shield or goggles and contaminated clothing.

## FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

## SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for MAVRIK® AQUAFLOW is available from [adama.com](http://adama.com) or call Customer Service on 1800 423 262.

**CONDITIONS OF SALE:** The use of MAVRIK® AQUAFLOW Insecticide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Adama Australia accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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