

# POISON

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

# ORTHENE<sup>®</sup> XTRA

## INSECTICIDE

**ACTIVE CONSTITUENT: 970 g/kg ACEPHATE**  
(an anticholinesterase compound)



**GROUP**

**1B**

**INSECTICIDE**

**For the control of certain insect pests on bananas, crucifers, macadamias, ornamentals, potatoes, tobacco and tomatoes as specified in the DIRECTIONS FOR USE Table**

**IMPORTANT: READ THE ATTACHED LEAFLET/BOOKLET BEFORE USE**

**NET CONTENTS: 1KG**

**UPL Australia Pty Ltd  
Level 3, 70 Hindmarsh Square,  
Adelaide, SA, 5000  
Tel: (08) 8112 0900  
Fax: (08) 8112 0999**

06/22/F



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**PEEL HERE**

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### STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area, out of direct sunlight.

Single-rinse or shake remainder into spray tank. Do not dispose of undiluted chemicals on site. 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.

### SAFETY DIRECTIONS

Poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Will irritate the eyes. Avoid contact with eyes. Do not inhale dust or spray mist. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves and face shield.

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

### FIRST AID

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 13 11 26, New Zealand 0800 764 766) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed.

### SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet that can be obtained from the supplier.

### CONDITIONS OF SALE

UPL Australia Pty Ltd accepts responsibility for the consistent quality of the product; however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.

**Additional statements required by Globally Harmonised System for classification and labelling of chemicals (GHS) and Safe Work Australia:**

Read carefully and follow all instructions. Do not eat, drink or smoke when using this product.

In an Emergency  
Dial **000**  
Police or Fire Brigade

24 Hour Emergency Response Service  
Australia **1800 033 111**  
International **+61 3 9663 2130**

### BATCH NO

### DOM

APVMA Approval No: 50469/135810

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**DIRECTIONS FOR USE:**

CROP	PEST	STATE	RATE	
			Per Hectare (low volume)	Per 100 Litres water (High volume)
Bananas	Banana scab moth ( <i>Nacoleia octasema</i> ), Banana flower thrips ( <i>Thrips hawaiiensis</i> )	Qld, NSW, WA, NT only	-	65 to 130 g (6.5 to 13 g/10 L)  [At 30 mL/bell use 130 g/ 100 L At 40 mL/bell use 97.5 g/ 100 L At 60 mL/bell use 65 g/ 100 L]
	Banana rust thrips ( <i>Chaetanaphothrips signipennis</i> )			130 g (13 g/10 L water)
Brussels sprouts	Heliothis ( <i>Helicoverpa</i> spp.)	Tas only	1.0kg	100g
	Cabbage moth, cabbage white butterfly	NSW, Vic, Tas, SA, WA, NT only		
	Cabbage aphid, heliothis ( <i>Helicoverpa</i> spp.)	Qld, WA, NT only	0.8kg	80g
Cabbages, cauliflowers, broccoli	Cabbage moth, cabbage white butterfly	NSW, Vic, Tas, SA, WA, NT only	1.0kg	100g
	Cabbage aphid, heliothis ( <i>Helicoverpa</i> spp.)	Qld, WA, NT only	0.8kg	80g
Macadamias	Macadamia nut borer, fruit spotting bug, leafminer	NSW, WA only	<u>Dilute spraying:</u> 80 g/100 L	
	Redshouldered leaf beetle	Qld, WA, NT only	<u>Concentrate spraying:</u> Refer to the <b>Application Section in GENERAL INSTRUCTIONS</b>	
	Flower eating caterpillar	NSW, WA only		
	Flower eating caterpillar, fruit spotting bug, macadamia leaf miner, banana-spotting bug, flower thrips.	Qld, NT only	<u>Dilute spraying:</u> 50 g/100 L	
	Flower thrips, banana spotting bug, macadamia leaf miner.	WA only	<u>Concentrate spraying:</u> Refer to the <b>Application Section in GENERAL INSTRUCTIONS</b>	

WHP	CRITICAL COMMENTS
-	<u>Bell injection only</u> Apply 30 to 60 mL of prepared solution to each banana bell. The volume required per bell should be determined by the average bell size to be treated, prior to making up the solution.  Use the highest concentration (13 g/10 L) when applying 30 mL per bell. Use the lowest concentration (6.5 g/10 L) when applying 60 mL per bell.  Inject the required volume directly into the upright bell as it emerges from the throat of the banana plant.  <u>Bunch spray only</u> Apply, to the point of run-off, up to 50 mL of prepared spray solution to each bunch, ensuring thorough, even spray coverage. Application should be made no later than 2 weeks after bunch emergence.
3 days	Spray when infestation occurs and then at 10-14 day intervals or as necessary. Use a non-ionic wetting agent at the rate specified by the manufacturer for use in horticultural crops.
3 days (broccoli 14 days)	
-	Apply when pest activity first observed and repeat at 14 to 21 day intervals or as necessary.  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.  Apply at early flowering if pests evident. One to three sprays may be required depending on time and severity of infestation. Spray when bees are least active.  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.

**DIRECTIONS FOR USE:** *Continued*

CROP	PEST	STATE	RATE	
			Per Hectare (low volume)	Per 100 Litres water (High volume)
Ornamentals	Aphids	All States	1.0kg	100g
	Heliothis (Helicoverpa spp.)	Vic, Tas, SA, WA only		
Potatoes	Potato moth (tobacco leafminer)	All States	0.5kg	50g
Tobacco	Heliothis (Helicoverpa spp.)	Vic only	0.8kg	80g
	Heliothis (Helicoverpa spp.), tobacco looper, whitefly, cluster caterpillar, stem borer	Qld, WA only		
	Budworm (Helicoverpa armigera)	NSW only		
Tomatoes	Potato moth (tobacco leafminer), Heliothis (Helicoverpa spp.)	NSW, Vic, Tas, SA, WA only	1.0kg	100g
	Aphids		0.8kg	80g
	Potato moth (tobacco leafminer), heliothis (Helicoverpa spp.), aphids.	Qld, NT only		

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

**WITHHOLDING PERIODS (WHP)**

Bananas, macadamias, ornamentals – NOT REQUIRED WHEN USED AS DIRECTED.

Brussels sprouts, cabbages, cauliflowers, potatoes, tomatoes – DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.

Broccoli, tobacco – DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.

**EXPORT OF TREATED PRODUCE**

GROWERS SHOULD NOTE THAT MRLS OR IMPORT TOLERANCES DO NOT EXIST IN ALL MARKETS FOR EDIBLE PRODUCE TREATED WITH ARYSTA MATAK XTRA INSECTICIDE. IF YOU ARE GROWING EDIBLE PRODUCE FOR EXPORT, PLEASE CHECK WITH UPL AUSTRALIA PTY LTD FOR THE LATEST INFORMATION ON MRLS AND IMPORT TOLERANCES BEFORE USING ARYSTA MATAK XTRA INSECTICIDE.

WHP	CRITICAL COMMENTS
-	Spray when infestation occurs and then at 14 day intervals. DO NOT spray more than once every 28 days on carnations and chrysanthemums. See also warning under Protection of Crops section. DO NOT apply to carnations less than 6 days before picking.
3 days	Spray every 14-21 days or as necessary.
14 days	Spray as indicated by crop checking (usually a minimum of 7 days is required). Use high volume application for good coverage ie. 130-400 L/ha depending on crop stage, paying particular attention to the bud heart.
	Spray at 7-10 day intervals, when the pest is present.
3 days	Spray when infestation occurs and then at 7-14 day intervals or as necessary. (Ground application only).
	Apply when infestation occurs and then at 7 day intervals or as necessary.

**GENERAL INSTRUCTIONS****MIXING**

Add the required amount of Arysta Matak Xtra Insecticide to the full volume of water in the spray or mixing tank with the agitator in operation. Ensure that the granules are completely dissolved before spraying.

**APPLICATION**

Good pest control requires even, thorough coverage of the target area. Application should be made using appropriate spray equipment and sufficient water to provide adequate penetration and coverage. Equipment settings and water volume may need to vary, depending on the growth stage of the crop.

**Application Instructions for All Crops excluding Macadamias and Bananas****By Ground**

Where spray volume equals or exceeds 1000 L/ha use the appropriate **Rate per 100 L water**, as specified in the "High Volume" column of the **Directions for Use table**. Where spray volume is less than 1000 L/ha use **Rate per hectare**, as specified in the "Low Volume" column of the **Directions for Use table**.

## Aerial Application

Apply in a minimum of 20 L of water per hectare, using the appropriate rate per hectare, **as specified in the “Low Volume” column of the Directions for Use table.**

Application Instructions for Bananas

Refer to Critical Comments section of Directions for Use Table for full details on method of application.

Special Instructions for Macadamias

### 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 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.

### 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.

This mixing rate for concentrate spraying can then be calculated in the following way:

#### EXAMPLE ONLY

1. Dilute spray volume as determined above: For example 1500 L/ha
2. Your chosen concentrate spray volume: For example 500 L/ha
3. The concentration factor in this example is:  $3 \times$  (i.e.  $1500 \text{ L} \div 500 \text{ L} = 3$ )
4. If the dilute label rate is 50 g/100 L, then the concentrate rate becomes  $3 \times 50$ , that is 150 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.

## INSECTICIDE RESISTANCE WARNING

**GROUP 1B INSECTICIDE**

For insecticide resistance management, Arysta Matak Xtra Insecticide is a Group 1B insecticide. Some naturally occurring insect biotypes resistant to Arysta Matak Xtra Insecticide and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Arysta Matak Xtra Insecticide or other Group 1B insecticides are used repeatedly. The effectiveness of Arysta Matak Xtra Insecticide on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, UPL Australia Pty Ltd accepts no liability for any losses that may result from the failure of Arysta Matak Xtra Insecticide to control resistant insects.

The user should seek advice, and monitor the performance, and if the results are not in accordance with expectations, contact the manufacturer immediately. Apparent resistance however, should not be confused with poor application, coverage or timing techniques.

Arysta Matak Xtra Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, UPL Australia Pty Ltd representative or local agricultural department agronomist.

## COMPATIBILITY

Arysta Matak Xtra Insecticide may be mixed in the spray vat with Oxydul®. A mixture of Arysta Matak Xtra Insecticide with other products may be ineffective or may cause serious damage and hence is not recommended.

## PRECAUTIONS

### Re-Entry Period

Do not allow entry into, or perform agronomic practices in, treated areas until the spray deposits have dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and elbow-length PVC gloves. Clothing must be laundered after each day's use. For glasshouses and other confined areas, do not re-enter until spray deposits have dried and area has been thoroughly ventilated.

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

**Bananas:** Use as a bell injection or bunch spray during the wet season may result in some damage to banana hands.

**Ornamentals:** Arysta Matak Xtra Insecticide may cause foliage damage to certain shrubs and trees, eg. crab apple, cotton wood, Lombardy poplar and American elm. DO NOT spray more than once every 28 days on carnations and chrysanthemums. Certain chrysanthemum varieties, eg. Showoff, Iceberg, Albatross, Bonnie Jean and Statesman have, on occasions, been damaged by Arysta Matak Xtra Insecticide.

## PROTECTION OF LIVESTOCK

Harmful to bees - DO NOT apply during active foraging of bees and avoid spraying at flowering time. Avoid spray drift from target area. DO NOT contaminate feed or foodstuffs.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with this product or the used container.

## DRIFT WARNING

DO NOT apply in weather conditions, or from spraying equipment, which could be expected to cause spray to drift onto adjacent crops, crop lands, pasture or livestock.

## STORAGE AND DISPOSAL

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