

# DANGEROUS POISON

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

## Suprathion<sup>®</sup> 400 EC

### Insecticide

ACTIVE CONSTITUENT: **400 g/L METHIDATHION**

(an anti-cholinesterase compound)

SOLVENT: 557.8 g/L XYLENE

GROUP **1B** INSECTICIDE

For the control of a broad range of pests on various crops as specified in the Directions for Use table

Formulation type  
Emulsifiable  
Concentrate

**EC**



adama.com

CONTENTS: 5 L, 10 L, 20 L, 60 L, 110 L, 200 L

#### DIRECTIONS FOR USE

##### 1. TREE AND VINE CROPS

CROP	PEST	STATE	RATE		WHP days	CRITICAL COMMENTS
			Dilute Spraying Rate/100 L	Aircraft Rate/ha crop		
Apples, Pears Spring and Summer treatment	Codling Moth, Light Brown Apple Moth, Two-Spotted Mite	Qld, NSW, Vic, Tas, SA, WA only	125 mL	–	14	<b>CRITICAL COMMENTS</b> For all uses in this table. 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.  Spray at petal fall and repeat application at 21 day intervals as required. Ensure thorough coverage of foliage and fruit. If heavy rain falls soon after application, shorten intervals between spraying. For best control of San Jose José and Mealy Bug at least three applications commencing at petal fall are recommended. If Codling Moth and Light Brown Apple Moth are severe problems, shorten interval between sprays to 14 days until pest activity decreases. Where Mealy Bug, San José Scale and Woolly Aphid are present, ensure thorough coverage of limbs and branches. These sprays will keep Woolly Aphid in check during the period they are applied. The addition of a specific miticide will be necessary when mite resistance occurs. Frequent observation of mites is recommended to avoid population build-up. This product is deleterious to beneficial insects. Take care when using in IPM orchards.
	Woolly Aphid	NSW, Vic, Tas, SA, WA only				
	San José Scale	Qld, NSW, Vic, SA, WA only				
	Mealy Bug	Vic, Tas, SA, WA only				

1. TREE AND VINE CROPS – *continued*

CROP	PEST	STATE	RATE		WHP days	CRITICAL COMMENTS
			Dilute Spraying Rate/100 L	Aircraft Rate/ ha crop		
Apples, Pears, Stone Fruit Dormant treatment	San José Scale	Qld, NSW, Vic, SA only	125 mL	–	14	Apply as late as possible during the dormant period, preferably at budswell. Ensure thorough coverage of limbs and branches. DO NOT apply to Stone Fruit after the dormant period as partial defoliation of some varieties may occur. <b>Qld:</b> 1 - 2 L dormant oil may be added to the spray mixture, but it is not necessary for good control of San José Scale.
		WA only	125 mL + 3 L dormant oil			
Apricots Dormant treatment	Grapevine Scale	Qld, WA only	125 mL			
Avocados	Banana-Spotting Bug, Fruitspotting Bug, Monolepta Beetle				7	Spray when pests are active. Repeat applications at 7 - 10 day intervals.
	Lantania Scale, Red Banded Thrips					Spray thoroughly as required.
Citrus	Mealy Bug	SA, WA only	125 mL		21	Apply during November to February. Ensure thorough coverage of limbs and branches. Two sprays may be required under very heavy Red Scale infestation, the first during late November/ December, the second during January/February. <b>SA only:</b> Spraying may commence one month earlier and oils should not be added when spraying in November/December.
	Red Scale	NSW, Vic, SA, WA only	1 L miscible summer oil may be added DO NOT add oil when very hot			Spray thoroughly when larvae are on the leaves: December in warmer districts to January in cooler areas. <b>WA only:</b> Repeat two weeks later if infestation is very heavy.
	White Wax Scale	NSW, WA only				Spray in late November/early December and again in late January/early February. Ensure thorough coverage of foliate, limbs and branches. DO NOT use oil spray mixture on Glen Retreat Mandarins. DO NOT apply more than twice in any one season. This product is deleterious to beneficial insects. Take care when using in IPM orchards.
	Circular Black Scale, Pink Wax Scale, Red Scale, Soft Brown Scale, White Wax Scale	Qld, WA only				Apply as necessary at growth flushes. DO NOT apply more than twice in any one season.
	Citrus Leaf Miner		125 mL + wetting agent			Use as required. Apply before bugs reach adult stage. DO NOT apply more than twice in any one season.
	Bronze Orange Bug, Spined Citrus Bug		30 mL + wetting agent			Use where integrated control practices are being followed. These low rates will suppress aphid and bug populations, whilst having minimum effect on desirable predators. DO NOT apply more than twice in any one season.
	Black Citrus Aphid		25 mL			Apply at any time of year. Ensure thorough coverage of trunk and limbs. For severe infestations, the canopy of the tree should also be thoroughly sprayed. The addition of oil as for other insects may aid in control, but is not necessary for White Louse Scale control. DO NOT apply more than twice in any one season.
	White Louse Scale		125 mL + wetting agent			Monitor fruit on a fortnightly basis from early February to harvest. Spray if 10 or more freshly fallen fruit per tree are infested at any one time.
	<i>Blastoblastis</i> spp., Sorghum-head Caterpillar		125 mL			Check fruit in October/November. Spray if more than 1 in 10 fruit stalks are infested.
	Hemispherical Scale, Long Soft Scale, Purple Scale					Check leaves in October/ November. Spray if more than 1 in 50 leaves are infested.
	Green Coffee Scale, Pulvinaria Scale					Spray if more than 1 in 3 twigs are galled. Apply early to mid December. Timing is critical.
	Citrus Gallwasp					
	Coffee (non-bearing)	Mealy Bug	Qld, WA only	125 mL + 1 L white oil		

**1. TREE AND VINE CROPS – continued**

CROP	PEST	STATE	RATE		WHP days	CRITICAL COMMENTS	
			Dilute Spraying Rate/100 L	Aircraft Rate/ ha crop			
Custard Apples	Fruit Spotting Bug	Qld, NSW, WA only	65 mL	–	7	Spray when pests are active.	
	Brown Olive Scale, Long Soft Scale, Soft Brown Scale		125 mL plus wetting agent	Spray thoroughly as required.			
	Mealy Bug			Spray about one month before harvest and repeat 2-3 weeks later. Good spray coverage of fruit is essential.			
Grapes Dormant treatment	Grapevine Scale	Qld, NSW, Vic, SA, WA only	125 mL	–	14	Spray during Winter months, prior to bud movement.	
Grapes Spring and Summer treatment	Grapevine Moth	Qld, NSW, SA, WA only	65 mL	650 mL	–	Spray when caterpillars are noticed during Spring and early Summer. Repeat if necessary.	
	Grapevine Scale		75 mL	750 mL		Spray during late November/ December. For late table grapes, spray early November, again late December. Thorough coverage is essential.	
		Vic only	–	–			
	Long Tailed Mealy Bug	Qld, NSW, SA, WA only	125 mL	1.3 L		–	Spray when caterpillars are first noticed and repeat if necessary at 14 - 21 day intervals.
		Vic only		–		–	
	Light Brown Apple Moth	Qld, NSW, SA, WA only	125 mL	1.3 L		–	Spray during Spring and preferably at monthly intervals or at first signs of adult feeding or egg laying activity.
Vic only		–		–			
Common Auger Beetle, Elephant Weevil, Fig Longicorn Beetle, Vine Weevil	NSW, WA only	125 mL	–	–			
Macadamia nuts	Macadamia Felted Coccid, Macadamia Nut Borer, Macadamia Twig Girdler	NSW, Qld, WA only	125 mL	–	21	Spray thoroughly when pests are noticed. Repeat applications monthly as necessary.	
		WA, Qld only	–	–			
		Qld, NSW, WA only	65 mL	–			
	Brown Olive Scale, Pink Wax Scale, Soft Brown Scale, White Wax Scale	Qld, WA only	125 mL + wetting agent	–		Spray thoroughly in late November/ early December.	
		Qld, NSW, WA only		–			
	Long Soft Scale, Macadamia Mussel Scale, Macadamia White Scale	Qld, NSW, WA only	125 mL + wetting agent	–		Spray when pests or honey dew are noticed.	
	Citrus Mealy Bug, Hibiscus Mealy Bug, Longtail Mealy Bug	Qld, WA only	125 mL + wetting agent	–			
Mangoes	Mango Scale	Qld, WA, NT only	125 mL + wetting agent	–	21	Spray thoroughly in late November/ early December.	
	Pink Wax Scale	Qld, NSW, WA, NT only	125 mL + 1 L water miscible oil	–		Spray as required.	
	Mango Tipborer			–		Spray when pests are active.	
	Leafminer ( <i>Acrocercops</i> spp.)	Qld, WA only	125 mL + wetting agent	–		Apply as a cover spray February-March when trees are flushing and beetles emerge from seeds. A repeat canopy spray when fruit is 2 - 3 cm in diameter will kill the adult weevil.	
	Mango Seed Weevil	Qld, NSW, WA only	125 mL + wetting agent	–			
Passionfruit	Mealy Bug	Qld, NSW, WA only	125 mL + wetting agent	–	14	Apply one or two sprays (2 - 3 weeks apart) depending on degree of infestation.	
	Red Scale		125 mL + wetting agent	–		Apply early December and again in late January/ early February.	
	Other scale insects		125 mL	–		Apply the spray when scale populations build up to high levels. Ensure thorough coverage. Better activity against Black Scale may be achieved by application when insects are in the young stages.	

## 2. VEGETABLES

CROP	PEST	STATE	RATE			WHP days	CRITICAL COMMENTS
			Boom Spray/ha	High Volume/100 L	15 L Knapsack		
Beans	Aphid	Qld, Vic, Tas, SA, WA only	1.4 L	125 mL	20 mL	7	Apply at the first signs of infestation. Repeat as necessary.
Eggplants (Aubergine)	Aphids, Leaf Hoppers	Qld, Vic, Tas, SA, WA only					Apply when necessary.
Garlic	Onion Thrip	Qld, Vic, Tas, SA, WA only	750 mL	75 mL	10 mL		Spray thoroughly when pests appear. A repeat application 7-10 days later may be necessary.
Onions		All States					
Peas	Aphids, Loopers	Qld, Vic, Tas, SA, WA only	1.4 L	125 mL	20 mL		Apply at first signs of infestation. Repeat as necessary.
Potatoes	Loopers	All States					
	Rutherglen Bug		1 L	–	–		
Tomatoes	Aphids	All States	1.4 L	125 mL	20 mL		Apply at first signs of infestation. Repeat at 10-14 day intervals, or as required.
	Cutworms	Qld, Vic, Tas, SA, WA only	1.4 - 2.8 L				Spray thoroughly, including soil around plants, as required.
	Leaf Hoppers		1.4 L				Apply when necessary.
	Tomato Mites	Qld, SA, WA only					
	Onion Thrip	Qld, Vic, Tas, SA, WA only	750 mL	75 mL	10 mL	Spray thoroughly when pests appear. Repeat as necessary.	
	Rutherglen Bug	All States	1 L	–	–	Spray during periods of serious infestation. Repeat as necessary.	

## 3. FIELD CROPS AND PASTURES

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
			Boom spray, Aircraft, Mister/ha		
Cereals	Blue Oat Mite	All States	90 mL	1 day (G) 6 weeks (H)	Spray when pests appear in large numbers, 3 - 6 weeks after Autumn rains. Repeat if numbers build up during season. Avoid spraying when pests are sheltering. Spray when at least 2.5 cm cover of pasture or crop is present. DO NOT spray if rain is imminent.
Cereals, Pastures, Forage Crops	Lucerne Flea, Redlegged Earth Mite	NSW, Vic, Tas, SA, WA only			Spray when pests appear in large numbers, 3 - 6 weeks after Autumn rains. Repeat if numbers build up during season. Avoid spraying when pests are sheltering. Spray when at least 2.5 cm cover of pasture or crop is present. DO NOT spray if rain is imminent.
	Common Armyworm	Qld, NSW, Vic, SA, WA only	1.4 L	7 days (F) 7 days (G) 6 weeks (H)	Spray at first signs of infestation.
	Southern Armyworm (Barley Grub)	NSW, Vic, Tas, SA, WA only			
Cereals, Pastures, Forage Crops, Oil Seed Crops, Lucerne (Bare earth situation)	Blue Oat Mite, Lucerne Flea, Redlegged Earth Mite	NSW, Vic, SA, WA only	200 mL	7 days	Apply as a ground spray, immediately prior to seedling emergence using sufficient water to give good coverage. If mite activity is severe also spray the headlands and surrounding vegetation prior to emergence.
Cotton	Mites (knockdown and short residual control)	Qld, NSW, WA, NT only	1.4 L/ha	3 days	Apply when infestation is light to moderate. Ensure good coverage with at least 20 L of spray per hectare. If mite populations are high or conditions favour a build-up, repeat application in 5 - 7 days. DO NOT apply more than 3 times during the season.
Lucerne	Blue Green Lucerne Aphid	Qld, NSW, WA only	750 mL	7 days (F)	Spray as soon as practicable after cutting. Repeat if necessary.
	Lucerne Leaf Roller	All States	850 mL	7 days (G) 6 weeks (H)	Spray when the pest first appears and repeat as necessary.
	Sitona Weevil	NSW, Vic, SA, WA only	1.4 L		Spray at first signs of serious infestation. Repeat if necessary.
	Spotted Alfalfa Aphid	Qld, NSW, SA, WA only	750 mL		Spray as soon as practicable after cutting. Repeat if necessary.

### 3. FIELD CROPS AND PASTURES – continued

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
			Boom spray, Aircraft, Mister/ha		
Lupins	Cowpea Aphid	SA, WA only	1 L	7 days (G)	Spray when pests are active.
	Lucerne Flea, Redlegged Earth Mite	Vic, SA, WA only	90 mL	1 day (G)	Spray when pests appear in large numbers at seedling emergence.
Rice	Common Armyworm	Qld, WA only	1.4 L	6 weeks (H)	Spray at first signs of infestation.
Sunflowers	Grey Cluster Bug, Rutherglen Bug	Qld, NSW, Vic, WA only	1 L	3 days	Apply during heavy infestation. Repeat as necessary.

### 4. ORNAMENTALS, TREES AND SHRUBS

CROP	PEST	STATE	RATE	CRITICAL COMMENTS
			Dilute Spraying Rate/100L	
Flower and Vegetable seedlings	Aphids, Armyworm, Caterpillars, Cutworm, Leaf Hoppers, Plant Bugs, Thrips, Weevils	All States	100 - 125 mL	Spray at first signs of infestation and repeat at 10 - 14 day intervals as necessary. Some leaf scorching may occur on tender, young foliage. Scale insects are most effectively controlled when sprayed in the crawler (larval) stage. DO NOT spray during flowering period.
Orchids	Aphids, Black Scale, Cymbidium Scale, Orchid Beetle, Orchid Scale, Slugs and Snails, Soft Brown Scale, Soft Orchid Scale, Thrips		125 mL	
Ornamentals, Trees, Shrubs in nurseries, parks, gardens and forestry situations	Aphids, Armyworm, Caterpillars, Cutworm, Grasshoppers, Leaf Miners, Leaf Hoppers, Lerp Insects, Mealy Bug, Plant Bugs, Sawflies, Scale Insects, Soft Scales, Thrips, Weevils		100 - 125 mL	
Turf	Argentine Stem Weevil, Couchtip Maggot	SA, WA only	500 mL (8 L spray/100 m <sup>2</sup> )	Apply at 10 day intervals as required. DO NOT graze treated turf or feed grass clippings from treated turf to animals.
	Couchgrass Mite, Couchgrass Scale	Qld, SA, WA only		
	Mealy Bug		750 mL (14 L spray/100 m <sup>2</sup> )	

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

**IN TASMANIA, THIS PRODUCT MUST NOT BE APPLIED BY AIRCRAFT WITHOUT THE SPECIFIC APPROVAL OF THE REGISTRAR OF PESTICIDES.**

#### WITHHOLDING PERIODS:

\*F = forage crops, G = grazing, H = for human consumption

#### COTTON:

**DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION**

#### OIL SEED CROPS, VEGETABLES, AVOCADOES,

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

#### CUSTARD APPLES:

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

#### APPLES, PEARS, STONE FRUIT, GRAPES, PASSIONFRUIT:

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

#### CITRUS, COFFEE, MACADAMIA NUTS, MANGOES:

#### PASTURE AND FORAGE CROPS (INCLUDING LUCERNE, LUPINS, SORGHUM AND CEREAL CROPS):

**DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 1 DAY AFTER APPLICATION OF 90 mL OF PRODUCT PER HECTARE**

**DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION OF PRODUCT IN EXCESS OF 90 mL PER HECTARE**

#### GRAIN CROPS (INCLUDING GRAIN SORGHUM, RICE AND CEREAL CROPS):

**DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION**

## GENERAL INSTRUCTIONS

This product is harmful to beneficial insects. Care should be exercised when the product is applied into integrated pest management orchards, e.g. citrus and deciduous fruits. The addition of a wetting agent used at recommended rates will improve spray coverage, where listed in the table.

## MIXING

Partly fill spray tank with water. Add required amount of product with agitator or by-pass in operation.

## TREE AND VINE CROPS

### 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 SUPRATHION® 400 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. 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 1500 L/ha
2. Your chosen concentrate spray volume: for example 500 L/ha
3. The concentrate factor in this example is 3X (ie.  $1500 \text{ L} \div 500 \text{ L} = 3$ )
4. If the dilute label rate is 125 mL/100 L, then the concentrate rate becomes  $3 \times 125$ , that is 375 mL/100 L of concentrate spray.

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

## COMPATIBILITY

This product is compatible with most commonly used orchard sprays such as Thiram, Zineb and spraying oils. It is also compatible with Mancozeb.

## INSECTICIDE RESISTANCE WARNING

For insecticide resistance management SUPRATHION® 400 EC Insecticide is a Group 1B insecticide. Some naturally occurring insect biotypes resistant to SUPRATHION® 400 EC 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 SUPRATHION® 400 EC or other Group 1B insecticides are used repeatedly. The effectiveness of SUPRATHION® 400 EC 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 SUPRATHION® 400 EC to control resistant insects. SUPRATHION® 400 EC may be subject to specific resistance management strategies. For further information contact your local supplier, Adama representative or local agricultural department agronomist.

## PROTECTION OF LIVESTOCK

Dangerous to bees. DO NOT spray any plant in flower while bees are foraging.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life with long lasting effects. DO NOT contaminate wetlands or watercourses with this product or used containers.

## STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. 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 a 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. For refillable containers, empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

## SAFETY DIRECTIONS

Very dangerous, particularly the concentrate. Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes and skin. DO NOT inhale spray mist. When opening the container, preparing the spray and using the prepared spray, wear protective waterproof clothing, elbow-length PVC gloves and full facepiece respirator with combined dust and gas cartridge/canister. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. 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, respirator and if rubber, wash with detergent and warm water, and contaminated clothing.

## FIRST AID

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone e.g. 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.

## SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for SUPRATHION® 400 EC is available from adama.com or call Customer Service on 1800 423 262.

**CONDITIONS OF SALE:** The use of SUPRATHION® 400 EC 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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**UN No. 3017**  
**ORGANOPHOSPHORUS**  
**PESTICIDE, LIQUID,**  
**TOXIC, FLAMMABLE**  
**(CONTAINS METHIDATHION)**  
**HAZCHEM CODE: 3W**  
**PACKAGING GROUP: II**

