

# DANGEROUS POISON

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

## Electra<sup>®</sup> 225

### Insecticide



# ADAMA

## ESSENTIALS

**ACTIVE CONSTITUENT: 225 g/L METHOMYL**  
(an anticholinesterase compound)  
**SOLVENT: 130 g/L METHANOL**

**GROUP 1A INSECTICIDE**

*A contact insecticide for the control of certain pests of cereals, fruit, legumes, cotton, oil seed crops, tobacco, hops, vegetables, pastures, peanuts, ginger, duboisia, and other crops as specified in the Directions for Use table.*

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**CONTENTS: 20 L, 200 L**

**DIRECTIONS FOR USE:**

**Restraint:** DO NOT use in covered or protected situations in glasshouses, greenhouses or plastic tunnels.

**NON TREE & VINE CROPS**

CROP	PEST	STATE	RATE		WHP (Days)	CRITICAL COMMENTS
			High vol/100 L	Low vol/ha		
Adzuki Beans	Heliothis ( <i>Helicoverpa</i> spp.)	NSW, ACT, SA, WA only	–	0.5 or 1 L	7 (H)	<b>Ovicide/Larvicide</b> Use only where crops are monitored regularly. Use low rate when eggs are present and high rate when heavy egg lay occurs and/or when first to second instar larvae are present (up to 5 mm long).
				1.5 or 2 L		<b>Larvicide</b> Apply when infestation reaches an economically damaging level and repeat if necessary. Use low rate on small larvae and light infestations and high rate on large larvae and heavy infestations.
	Green Vegetable Bug	NSW, ACT, WA only	1.5 L	Apply when infestation reaches an economically damaging level and repeat if necessary.		
Blueberries	Monolepta Beetle, Caterpillar Pest, Plague Thrip	NSW, ACT, WA only	100 mL	–	5 (H)	Treat for Caterpillar Pests when populations reach damaging levels. Treat for Plague Thrips when numerous on flowers but take precautions for bees.
Broadbeans, French Beans, Navy Beans, Long Beans	Beanfly	Qld, NSW, ACT, WA, NT only	100 mL	1.5-2 L	1 (H)	Apply about 3 days after seedlings emerge and again 4 days later. Continue weekly applications until blossom. Use higher rate on heavier infestation.
	Bean Thrip	Qld, NSW, ACT, SA WA, NT only				Apply when pests first appear. Repeat depending on infestation. Spray to penetrate blossom. Use higher rate on heavier infestations.
	Bean Pod Borer	Qld, WA only	–	1.5 or 2 L		Apply when pests first appear and repeat depending on infestation. Use higher rate on heavier infestation.
	Corn Earworm, Native Budworm	Qld, NSW, ACT, Tas, WA, NT only				
	Loopers	Qld, NSW, ACT, WA, NT only				1.5 L
Green Vegetable Bug	Qld, NSW, ACT, WA, NT only			<b>Note:</b> Control of Green Vegetable Bug is important during and after flowering.		

CROP	PEST	STATE	RATE		WHP (Days)	CRITICAL COMMENTS
			High vol/100 L	Low vol/ha		
Brassica (Brussels Sprouts, Broccoli, Cabbages, Cauliflower)	Cabbage White Butterfly	Qld, NT only	100 mL	–	1 (H)	Apply when pests first appear. Repeat depending on infestation. Treatment will probably be required each 5-7 days during the growing season. Ensure thorough spray penetration. Use higher rate on heavier infestations.
		NSW, ACT, Vic, Tas, SA, WA only	–	1 or 2 L		
	Heliiothis ( <i>Helicoverpa</i> spp.)	Qld, NSW, ACT, Tas, WA, NT only	–	1.5 or 2 L		
	Cabbage Centre Grub	Qld, NSW, ACT, SA, WA, NT only	–	1.5 L		
	Cluster Caterpillar	Qld, WA, NT only	–	1 L		
Loopers	Qld, NSW, ACT, Vic, Tas, WA, NT only	–	–	1.5 L	–	–
Cotton	Cotton Bollworm, Native Budworm	Qld, NSW, WA only	–	0.5-1 L	DO NOT graze or feed treated crops to animals	<p><b>Wetting Agent:</b> For optimum results, add a wetting agent to the spray at a rate of 20-30 mL/100 L when mixing with water.</p> <p><b>Ovicide/Larvicide:</b> Crops should be checked every 2-3 days for eggs and larvae.</p> <p><b>Pre Squaring:</b> Initiate sprays when significant numbers of eggs are present, ie 75 eggs/100 plants. Continue at 4-5 day intervals while egg numbers are above these levels and larval control is adequate. Add an effective larvicide at recommended rates if significant numbers of small larvae (20/100 plants) are present.</p> <p><b>Squaring-Boll Maturity:</b> Continue above schedule when 50 eggs or more/100 plant terminals are found. Add an effective larvicide at recommended rates if significant numbers of small larvae (10/100 plant terminals) are present. If large larvae survive, use the higher recommended rate or add other effective larvicides. Use higher rate at peak egg laying and when 1st-2nd instar larvae predominate. Good spray coverage is essential to obtain good ovicidal activity.</p>
				1.8-2.4 L		<p><b>Larvicide</b></p> <p>Apply as an occasional treatment in a spray program based on alternative insecticides. DO NOT use more often than every 14 days during active growth stages of the crop or alternatively apply up to 3 treatments at a minimum of 3-day intervals between treatments after the boll load is set. DO NOT use during periods of plant stress.</p> <p><b>Note:</b> Use of this product may redden cotton foliage. If reddening is excessive, discontinue use of this product and use other insecticides. Avoid contact with spray residues. Keep unprotected persons out of treated areas for at least 24 hours.</p>
	Loopers	Qld, WA only	–	–	–	Apply when infestation reaches an economically damaging level and repeat if necessary.
Cowpeas	Heliiothis ( <i>Helicoverpa</i> spp.)	NSW, ACT, SA, WA only	–	0.5 or 1 L	7 (H)	<p><b>Ovicide rate</b></p> <p>Apply as detailed for Adzuki beans above.</p>
				1.5 or 2.1 L		<p><b>Larvicide rate</b></p> <p>Apply as detailed for Adzuki beans above.</p>
	Green Vegetable Bug	NSW, ACT only	–	1.5 L	–	Apply when infestation reaches an economically damaging level and repeat if necessary.
Duboisia	Cluster Caterpillar	Qld, WA only	100 mL	1 L	–	Apply when pests first appear. Repeat depending on infestation.
Ginger	Heliiothis ( <i>Helicoverpa</i> spp.)	–	–	1.5 L	–	Apply when pest populations are evident or when damage is evident to young shoots at ground level during early growth.
Guar	Green Vegetable Bug, Pod Sucking Bug	Qld, WA only	–	2 L	7 (H)	Apply when significant populations are noted.
Hops	Heliiothis ( <i>Helicoverpa</i> spp.)	Vic, Tas, WA only	–	–	14 (H)	DO NOT graze treated crops
Linseed	Heliiothis ( <i>Helicoverpa</i> spp.)	Qld, WA only	–	1.5 or 2 L	7 (H)	Apply from early flowering and repeat depending on infestation. Larvae completely enclosed inside bolls may not be controlled. Use the higher rate for heavier infestation.

CROP	PEST	STATE	RATE		WHP (Days)	CRITICAL COMMENTS
			High vol/100 L	Low vol/ha		
Lucerne Forage hay and seed	Native Budworm	Qld, NSW, ACT, Vic, Tas, SA, NT only	-	1.5-2 L	3 (G)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
		WA only		1-2 L		
Lupins	Native Budworm	Qld, NSW, ACT, WA only	-	1.5-2 L	7 (H)	Apply when pests first appear. Repeat depending on infestations.
		Vic, Tas only		1.5 L		
Maize	Heliothis ( <i>Helicoverpa</i> spp.)	Qld, NSW, ACT, WA, NT only	150-200 mL	1.5-2 L	14 (H) 14 (G)	<b>Larvicide</b> Apply initial spray at early silking or when eggs are first observed on silks. Repeat at 2-3 day intervals during silking if infestation continues. Use sufficient spray volume to thoroughly cover young developing cobs. <b>NSW only:</b> Control at tasselling stage may also be necessary. Application when 80% of the cobs are at early silking stage is very important.
			100 mL	1 L		
	Armyworm	Qld, NSW, ACT, SA, WA, NT only	-	1.5 L		<b>Ovicide</b> Use this rate only where crops are monitored for eggs and larvae. Apply only when egg laying occurs. As soon as any larvae are present use larvicidal rates as recommended above. <b>Note:</b> As all Armyworms, except the Dayfeeding Armyworm, feed mainly during the evening, spraying at dusk is recommended.
Mint	Native Budworm	Tas, WA only		1.5 or 2 L	14 (H)	Apply when pests first appear. Repeat depending on infestations.
Mung Beans seed production		Qld, NSW, ACT, WA, NT only		1.5-2 L	7 (H)	<b>Larvicide</b> Apply when pests first appear. Repeat depending on infestation. Refer to Application: Larvicidal for more details.
	Qld, WA only		0.5-1 L		<b>Ovicide/Larvicide</b> Refer to Application: Ovicidal/Larvicidal instructions for more data.	
	Green Vegetable Bug	Qld, NSW, ACT, WA, NT only		1.5 L		Apply when infestation reaches an economically damaging level and repeat if necessary. Refer to Application: Larvicidal for more details.
	Bean Pod Borer	Qld, WA, NT only		1.5-2 L		
Pastures native and improved (alone or with legumes)	Armyworm	Qld, NSW, ACT, SA, WA only		1.5-2 L	3 (G)	Apply when pests appear. Repeat depending on infestations. <b>Note:</b> All Armyworms, except the Dayfeeding Armyworm, feed mainly during the evening, so spraying at dusk is recommended.
	Common Armyworm	Vic, WA only				
	Southern Armyworm	Tas only				
	Buffel Grass Seed Caterpillar	Qld, WA only		1.75 L		Apply when pests appear (when webbing is just visible) and repeat if necessary. Ensure thorough spray penetration to obtain effective control of the pest.
Pasture Legume Seed Crops	Heliothis ( <i>Helicoverpa</i> spp.), Lucerne Blue Butterfly	Qld, WA only		1.5-2 L	-	Apply as infestations indicate during the flowering and pod setting period of crop development. Refer to Application: Larvicidal instructions for more details.
Peanuts	Heliothis ( <i>Helicoverpa</i> spp.)	Qld, WA, NT only		1.5 or 2 L	14 (H)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
Peas including field Peas, Chickpeas, Pigeon Peas	Native Budworm, Corn Earworm	Qld, NSW, ACT, WA, SA only		1.5 or 2 L	1 (H) Peas 7 (H) Field Peas, Chickpeas, Pigeon Peas	Apply when pests first appear. Repeat depending on infestation.
		Vic, Tas only		1.5 L		
	Looper, Pea Thrip	Qld, WA only	100 mL	1 L		
Poppies	Heliothis ( <i>Helicoverpa</i> spp.)	Tas, WA only		1.5 or 2 L	14 (H)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
Potatoes	Potato Moth	All States		1.5 or 2 L	-	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
	Potato Looper	Qld, WA only		1.5 L		
Rapeseed/Canola (seed)	Cabbage Moth	WA only		1 L	7 (H)	Apply when infestation reaches economically damaging level and repeat if necessary. Refer to Application: Larvicidal instructions for more details.
	Heliothis ( <i>Helicoverpa</i> spp.)	NSW, ACT, Vic, Tas SA, WA only		1 or 2 L		

CROP	PEST	STATE	RATE		WHP (Days)	CRITICAL COMMENTS
			High vol/100 L	Low vol/ha		
Sesame Seed	Corn Earworm	Qld, WA, NT only	-	1.5-2 L	14 (H)	Apply when significant populations are noted. Refer to Application: Larvicidal instructions for more details.
	Green Vegetable Bug			1.5 L		
Sorghum	Heliothis ( <i>Helicoverpa</i> spp.)	Qld, NSW, ACT, WA, NT only	-	1.5-2 L	14 (H) 14 (G)	Crop checking should commence on head emergence from the boot and continue at weekly intervals until maturity. <b>Larvicide</b> Apply when infestation reaches an economically damaging level and repeat if necessary. Refer to Application: Larvicidal instructions for more detail.
				0.5-1 L		<b>Ovicide/Larvicide</b> Refer to Application: Ovicidal/Larvicidal instructions.
	Armyworm spp.		1.5 L		Apply only when infestation reaches an economically damaging level and repeat if necessary. <b>Note:</b> As all Armyworms, except the Dayfeeding Armyworm, feed mainly during the evening, spraying at dusk is recommended.	
Soybean	Green Vegetable Bug	Qld, NSW, ACT, WA, NT only	-	1.5 L	7 (H)	Apply when infestation reaches an economically damaging level and repeat if necessary.  <b>Larvicide</b> Apply when infestation reaches an economically damaging level and repeat if necessary. Refer to Application: Larvicidal instructions for more detail.  <b>Ovicide/Larvicide</b> Refer to Application: Ovicidal/Larvicidal instructions.
	Loopers	Qld, WA, NT only				
	Heliothis ( <i>Helicoverpa</i> spp.)	Qld, NSW, ACT, WA, NT only				
	0.5-1 L					
Strawberries	Cluster Caterpillar, Loopers, Heliothis ( <i>Helicoverpa</i> spp.)	Qld, NSW, ACT, WA, NT only	150 mL	-	3 (H) fresh 10 (H) frozen	Apply when pests first appear. Repeat depending on infestation. <b>Note:</b> To avoid the possibility of taint in strawberries to be frozen, DO NOT apply later than 10 days before harvest.
	Heliothis ( <i>Helicoverpa</i> spp.), Light Brown Apple Moth	SA, WA only	150 or 200 mL			
Sunflowers	Green Vegetable Bug	NSW, ACT, WA only	-	1.5-2 L	7 (H)	Apply when pests first appear. Repeat depending on infestation. <b>Note:</b> Spray must be applied before seed heads turn over, otherwise adequate spray penetration and insect control will not be achieved.
		Qld only		1.5 L		
	Heliothis ( <i>Helicoverpa</i> spp.)	NSW, WA only		1.5-2 L		
		Qld only		1.5 L		
		SA only		2 L		
Qld, NSW, ACT, SA, WA only	0.5-1 L	<b>Ovicide/Larvicide</b> Refer to Application: Ovicidal/Larvicidal instructions.				
Sweetcorn	Heliothis ( <i>Helicoverpa</i> spp.)	All States	150- 200 mL	1.5 or 2 L	1 (H) 3 (G)	<b>Larvicide</b> Apply initial spray at early silking or when eggs are first observed on silks. Repeat at 2-3 day intervals during silking if infestation continues. Use sufficient spray volume to thoroughly cover young developing cobs. Refer to Application: Larvicidal instructions for more detail.
		Qld, Vic, Tas, SA, WA, NT only	100 mL	1 L		<b>Ovicide</b> Use this rate only where crops are monitored for eggs and larvae. Apply only when egg laying occurs. As soon as any larvae are present use larvicide rates as recommended above.
		NSW, ACT only	-	0.5-1 L		
Sweet Peppers (Capsicums)	Heliothis ( <i>Helicoverpa</i> spp.)	Qld, WA, NT only	150 or 200 mL	-	1 (H)	Apply when pests first appear. Repeat depending on pest infestation, although the spray interval should not exceed 7 days. Increase spray volume as plants increase in size. Use higher rate on heavier infestations.

CROP	PEST	STATE	RATE		WHP (Days)	CRITICAL COMMENTS
			High vol/100 L	Low vol/ha		
Tobacco	Heliothis ( <i>Helicoverpa</i> spp.), Cluster Caterpillar, Tobacco Looper, Tobacco Leaf Miner	Qld, NSW, ACT, Vic, WA only	100 mL	–	3 (H)	Apply when pests first occur. Repeat depending on infestation. The following is a guide to spray volume. <b>Plant Age Litres spray/ha</b> 1-3 weeks           250 4 weeks             300 5 weeks             450 6 weeks             550 After 6             900-1,100 weeks as required
	Tobacco Thrips, Leafhopper, Green Vegetable Bug	Qld, WA only				
	Tobacco Stem Borer	Qld, NSW, ACT, WA only				
	Cutworms, True and False Wireworms	Qld, WA only	150 or 200 mL	1.5 or 2 L		
	Grasshoppers		150 mL	1.5 L		
	Seed Harvesting Ants (seed bed only)		200 mL	–		
	Stubby Root Nematode	Vic, WA only	–	20 L		
	Common Brown Leaf Hopper (vector for Tobacco Yellow Dwarf Virus)		45 mL then 450 mL	–		
Tomatoes	Heliothis ( <i>Helicoverpa</i> spp.)	All States	50 or 100 mL	0.5 or 1 L	1 (H)	<b>Ovicide</b> ( <i>H. armigera</i> only) Apply the low rate when egg numbers indicate potential damage. Use the high rate at peak egg lay and when eggs are mainly in flowers and fruit.  <b>Larvicide</b> Apply when pests first appear. Repeat depending on pest infestation, although the spray interval should not exceed 7 days. Increase spray volume as plants increase in size. Use higher rate on heavier infestations. <b>Low Volume</b> When applying by ground use a fine spray (preferably generated by cone nozzles). Use 250 L/ha spray mixture or higher without producing runoff. When applying by air use a minimum of 10 L spray mixture per hectare with a droplet size of 150 microns or less. <b>High Volume</b> When applying by high volume use 250 L/ha spray mixture at the start of flowering. Increasing to 1,000 L/ha for mature plants.
		NSW, ACT only	200 mL	2 L		
		Qld, Vic, Tas, SA, WA only	150 or 200 mL	1.5 or 2 L		
	Tobacco Leaf Miner, Potato Moth	Qld, NSW, ACT, WA, NT only				
	Green Vegetable Bug	Qld, Tas, WA, NT only	150 mL	1.5 L		
	Loopers		–	1.5 L		
Wheat, Barley, Oats	Armyworms	All States		1 or 1.5 L	14 (H) 14 (G)	Apply when pests appear. Repeat depending on pest infestation. Use the low rate against larvae up to 20 mm long and the high rate against larger larvae. <b>Note:</b> All Armyworms, except the Dayfeeding Armyworm, feed mainly during the evening, so spraying at dusk is recommended.
		Qld only		1.0 L (aerial spray only)		
	Heliothis ( <i>Helicoverpa</i> spp.)	All States		1.5-2 L		

**DIRECTIONS FOR USE  
TREE & VINE CROPS**

RATE					CRITICAL COMMENTS
In the following table, all rates are given for dilute spraying. For "concentrate spraying", refer to the Application Section.					
CROP	PEST	STATE	RATE/100L WATER	WHP (Days)	
Apples	Light Brown Apple Moth	Qld, Vic, Tas, SA, WA only	150 or 200 mL	1 (H)	<p>For all uses in this table: Apply by dilute or concentrate spraying equipment. Refer to the section "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.</p> <p>Apply at calyx stage and repeat each 14 days, or as required by pest pressure. Use only low rate in NSW &amp; ACT, but in other States use high rate if infestation is heavy.</p> <p>Apply on a 14 day schedule for late season control of light infestations only. Moderate to heavy infestations of Codling Moth will not be controlled.</p> <p>Apply when number of larvae on shoots suggest economic damage is imminent.</p> <p>Apply when pests appear and repeat when necessary. Apply as a high volume spray ensuring adequate spray penetration to obtain effective control of the pests. <b>Bees:</b> Only apply when bees are not foraging.</p>
		NSW, ACT only	150 mL		
	Codling Moth	NSW, ACT, Vic, WA only			
	Heliothis ( <i>Helicoverpa</i> spp.)	Tas, WA only			
	Plague Thrip, Dimple Bug	Qld, WA only	200 mL		
Citrus	Larger Horned Citrus Bug, Bronze Orange Bug	Qld, Vic, SA, WA only	25 mL	2 (H)	<p>Apply as populations indicate and before bugs reach adult winged stage.</p> <p>Spray only if heavy infestations occur on young foliage and fruit.</p> <p>Apply to cover unhardened leaves from recent flushes when infestations are noted in young trees only.</p>
	Budworms		200 mL		
	Large Citrus Butterfly, Small Citrus Butterfly				
Grapevines	Light Brown Apple Moth	All States	150 mL	7 (H)	<p>Apply during early shoot growth/flowering if pests are a problem and again just before bunches close, if required. Control at later stages of bunching is difficult.</p> <p>Apply when populations indicate a need.</p>
	Vine Moth				
Peaches, Nectarines	Green Peach Aphid	All States	100 mL	1 (H)	<p>Apply when infestation reaches an economically damaging level and repeat if necessary. <b>Note:</b> DO NOT apply to early peach varieties such as Watts.</p>
	Heliothis ( <i>Helicoverpa</i> spp.)	Tas, WA only	150 mL		
Pears	Light Brown Apple Moth	Vic, WA only	150-200 mL	2 (H)	Apply at calyx stage from late November onwards and repeat at 14 days intervals or as required depending on infestation.
Stonefruit	Thrips	Qld, WA only	200 mL	1 (H)	Apply at petal Apply as a high volume spray ensuring adequate spray penetration to obtain effective control of the pest.

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

**DO NOT USE THIS PRODUCT IN THE HOME GARDEN.**

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

**WITHHOLDING PERIODS**

**HARVEST (H)**

**APPLES, BEANS, BROCCOLI, BRUSSELS SPROUTS, CABBAGES, CAULIFLOWER, NECTARINES, PEACHES, PEAS, STONE FRUIT, SWEETCORN, SWEET PEPPERS, TOMATOES:**

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

**CITRUS, PEARS:**

**DO NOT HARVEST FOR 2 DAYS AFTER APPLICATION.**

**STRAWBERRIES (FRESH), TOBACCO:**

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

**BLUEBERRIES:**

**DO NOT HARVEST FOR 5 DAYS AFTER APPLICATION.**

**ADZUKI BEANS, CHICKPEAS, COWPEAS, FIELD PEAS, GRAPES, GUAR, LINSEED, LUPINS, MUNG BEANS,**

**PIGEON PEAS, RAPESEED, SOYBEANS, SUNFLOWERS:**

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

**STRAWBERRIES (FROZEN):**

**DO NOT HARVEST FOR 10 DAYS AFTER APPLICATION.**

**BARLEY, HOPS, MAIZE, MINT, OATS, PEANUTS, POPPIES, SESAME SEED,**

**SORGHUM, WHEAT:**

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

**GRAZING (G)**

**LUCERNE, SWEETCORN, PASTURES:**

**DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 3 DAYS AFTER APPLICATION.**

**BARLEY, OATS, SORGHUM, WHEAT:**

**DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION.**

**COTTON, HOPS:**

**DO NOT GRAZE OR FEED TREATED CROPS TO ANIMALS.**

## GENERAL INSTRUCTIONS

### MIXING

ELECTRA® 225 may be applied without dilution if using appropriate ULV application equipment (See Aircraft Application). If dilution is required fill spray tank 1/4 - 1/2 full of water and add ELECTRA 225 directly to spray tank and continue filling with water. Mix thoroughly using mechanical or hydraulic means.

DO NOT use air agitation. Continue agitation for several minutes prior to spraying, agitation is required to fully mix the chemical.

### USE OF WETTING AGENT

If diluting ELECTRA 225 with water, add Wetspray® 600 at 20 mL per 100 L of spray solution.

### APPLICATION

**Larvicidal:** Apply at the recommended rates when insects first appear and repeat as needed. Apply the lower rates on small caterpillars and light infestations of insects. Use the higher rate on large caterpillars and heavier infestations of insects. Best control is obtained when spray schedules are initiated on young insects.

**Ovicidal/Larvicidal:** Use these rates where crops are regularly monitored for eggs and larvae. Use the lower rate when threshold egg levels are reached and the higher rate at peak egg laying and if 1st-2nd instar larvae are present (up to 0.5 cm long). If larvae greater than 0.5 cm are present, use larvicide rates as recommended.

**Ground Application:** Apply as a medium to fine spray using cone nozzles. DO NOT apply as a fog or mist. For effective insect control, proper timing and coverage are essential.

### **Special Mixing and Application Instructions for Tree Crops and Vines:**

#### **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.

#### **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 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 10 mL/100 L, then the concentrate rate becomes  $3 \times 10$ , that is 30 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.

**Aircraft Application:** Apply using aircraft correctly fitted with approved equipment, accurately calibrated. To reduce drift and to optimise spray deposition avoid application in calm conditions, and aim for application in light to moderate cross winds.

**ULV:** ELECTRA 225 may be applied undiluted at the recommended rate, but results will generally be better if the product is diluted with water to give a total volume of 3 L/ha. Droplet size (VMD) should be in the range 80-100 microns.

**Low Volume:** ELECTRA 225 may be applied in water at volumes of 20-30 L/ha using low volume equipment. Droplet size (VMD) should be in the range 100-200 micron.

## INSECTICIDE RESISTANCE WARNING

For insecticide resistance management

**GROUP 1A INSECTICIDE**

ELECTRA® 225 Insecticide is a Group 1A insecticide. Some naturally occurring insect biotypes resistant to ELECTRA 225 and other Group 1A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if ELECTRA 225 or other Group 1A insecticides are used repeatedly. The effectiveness of ELECTRA 225 on resistant individuals could be significantly reduced.

Since the occurrence of resistant insects is difficult to detect prior to use, Adama Australia Pty. Ltd. accepts no liability for any losses that may result from the failure of ELECTRA 225 to control resistant insects. ELECTRA 225 may be subject to specific resistance management strategies. For further information contact your local supplier, Adama representative or local agricultural department agronomist.

### COMPATIBILITY

ELECTRA 225 is compatible with most of the commonly used insecticides and fungicides. DO NOT mix with pesticides having alkaline reaction.

### PRECAUTION

Keep unprotected persons out of operational area during treatment and while there is a danger of spray drift. Avoid contact with spray residues. Keep unprotected persons out of treated area for at least 24 hours.

**Re-entry Period:** DO NOT allow entry into 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.

### PROTECTION OF LIVESTOCK

Keep animals out of operational areas during treatment and while there is a danger of drift. Dangerous to bees. DO NOT spray any plants in flower while bees are foraging. Ensure bee-hives are removed from the area to be treated and from adjacent paddocks.

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

**DANGEROUS TO WILDLIFE.** Birds feeding on treated areas may be killed. Dangerous to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used container. Avoid spray drift by applying when wind velocity is low.

### STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area as cool as possible out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Triple or preferably pressure 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

**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 and spray are poisonous if absorbed by skin contact, inhaled or swallowed. Attacks eyes, nose, throat and skin. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes and skin and clothing. DO NOT inhale vapour or spray mist. Protect eyes while using. When opening the container and preparing the spray, wear elbow-length PVC gloves and face shield. When using the prepared spray wear cotton overalls buttoned to the neck and wrist and washable hat, elbow length PVC gloves, impervious footwear and half-facepiece respirator with combined dust and gas cartridge (canister). If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product or spray on skin, immediately wash area with soap and 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, face shield, respirator, 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 eg Australia 131126; 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.

**NOTE TO PHYSICIAN**

Methomyl produces effects associated with anticholinesterase activity. Atropine sulphate should be used for treatment. Administer repeated doses 1.2 to 2.0 mg intravenously every 10-30 minutes until full atropinization is achieved. DO NOT use morphine or 2-PAM. Maintain atropinization until patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitors until recovery is assured.

**MATERIAL SAFETY DATA SHEET**

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for ELECTRA 225 is available from Adama on request. Call Customer Service on (02) 9431 7800.

**CONDITIONS OF SALE:** The use of ELECTRA® 225 Insecticide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia Pty. Ltd. 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 Pty. Ltd. accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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**UN No. 2991**  
**CARBAMATE**  
**PESTICIDE, LIQUID,**  
**FLAMMABLE,**  
**TOXIC**  
**HAZCHEM CODE: 3W**  
**PACKAGING GROUP: III**



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Date of Manufacture