

POISON

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

Primal[®]

Insecticide

ACTIVE CONSTITUENT: **200 g/L ACETAMIPRID**

SOLVENT: 505 g/L DIMETHYL SULFOXIDE

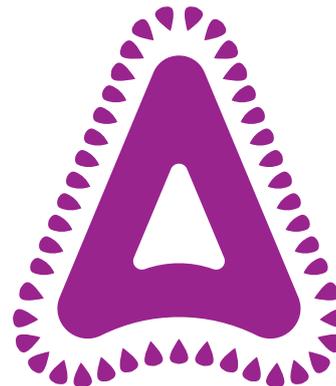
GROUP	4A	INSECTICIDE
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Crops: Cotton, Potatoes

Controls: Cotton Aphid, Green Mirid, Green Peach Aphid,
Green Vegetable Bug, Jassids and Silverleaf Whitefly as per
the Directions for Use

Formulation type
Soluble
Concentrate

SL



ADAMA

adama.com

CONTENTS: 1 - 100 L

DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply if heavy rains or storms are forecast within 3 days.

DO NOT irrigate to the point of runoff for at least 3 days after application.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at 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 three 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 a boom sprayer unless the following requirements are met:

- Spray droplets are not smaller than a MEDIUM spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas are observed (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers').

Buffer zones for boom sprayers

Application rate	Boom height above the target canopy	Mandatory downwind buffer zones		
		Natural aquatic areas	Vegetation areas	Livestock areas
Up to maximum label rate	0.5 m or lower	15 metres	5 metres	Not required
	1.0 m or lower	50 metres	30 metres	10 metres

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

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

Buffer zones for aircraft

Type of aircraft	Mandatory downwind buffer zones		
	Natural aquatic areas	Vegetation areas	Livestock areas
Fixed-wing	200 metres	120 metres	95 metres
Helicopter	140 metres	9 metres	65 metres

Table 1. Cotton

PEST	STATE	RATE	CRITICAL COMMENTS
Silverleaf Whitefly (<i>Bemisia tabaci</i> Biotype B)	All states	225-380 mL/ha	PRIMAL [®] has activity primarily on whitefly nymphs and evidence of activity will be slower than typical contact insecticides. Apply PRIMAL [®] when whitefly first appears and prior to heavy populations becoming established in the crop. Use the higher rate when conditions favour a rapid increase in the whitefly population, for longer residual control, during periods of rapid crop growth or when crops are well advanced. After application, continue to monitor the crop and if a second spray is required, apply an insecticide from a different mode of action group before applying a second application of PRIMAL [®] . Adjuvant When targeting a mixed population of silverleaf whitefly and other labelled pests, apply PRIMAL [®] with a non-ionic surfactant at the recommended label rate or an organosilicone adjuvant such as Pulse [†] Penetrant at 0.2% v/v. Where silverleaf whitefly is the primary target insect particularly after cutout, application of PRIMAL [®] with Hasten [†] at 1 L/ha can improve efficacy by enhancing contact and absorption.
Green Mirid (<i>Creontiades dilutus</i>)			Apply PRIMAL [®] when mirid numbers reach action thresholds. Use the higher rate on heavier populations and for longer residual control. Treated insects may still be on the plant for 2 or 3 days after application but will have stopped feeding. Adjuvant Apply with a non-ionic surfactant at the recommended label rate or an organosilicone adjuvant such as Pulse [†] Penetrant at 0.2% v/v.
Green Vegetable Bug (<i>Nezara viridula</i>) Jassids (<i>Amrasca terraereginae</i>)		380 mL/ha	Apply PRIMAL [®] when green vegetable bug or jassid numbers reach action thresholds. Under heavy/sustained green vegetable bug pressure, PRIMAL [®] may only provide knockdown and residual control for 7 days. A second application with an insecticide from a different mode of action group may be required if pest populations recover rapidly and numbers approach the action threshold. Adjuvant Apply with a non-ionic surfactant at the recommended label rate or an organosilicone adjuvant such as Pulse [†] Penetrant at 0.2% v/v.
Cotton Aphid (<i>Aphis gossypii</i>)		55-113 mL/ha	Use the high rate under sustained heavy aphid pressure. If repeat applications are required, alternate with products from a different insecticide group (refer to Cotton Aphid Resistance Management under General Instructions). Do not apply more than 2 sprays per crop per season. Adjuvant Apply with an organosilicone adjuvant such as Pulse [†] Penetrant at 0.2% v/v

Table 2. Potatoes

PEST	STATE	RATE	CRITICAL COMMENTS
Green Peach Aphid (<i>Myzus persicae</i>)	All states	225 mL/ha	Apply as a foliar spray when the pest density reaches the economic threshold. If repeat applications are required, alternate with products from a different insecticide group (refer to Green Peach Aphid Resistance Management under General Instructions). DO NOT apply more than 3 sprays per crop per season. Adjuvant It is recommended that PRIMAL® be applied with a non-ionic surfactant . Check manufacturer's directions for the appropriate use rate in horticultural crops.

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

WITHHOLDING PERIODS

COTTON: DO NOT HARVEST FOR 10 DAYS AFTER APPLICATION.
DO NOT GRAZE OR CUT FOR STOCK FOOD.
POTATOES: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.
DO NOT GRAZE OR CUT FOR STOCK FOOD.

GENERAL INSTRUCTIONS

MIXING

Shake container prior to opening. Two thirds fill the spray tank with clean water, and with the agitator operating, add the required quantity of PRIMAL® INSECTICIDE. Top up the spray tank to the required volume with clean water with the agitator running. Add the required quantity of non-ionic wetter, Hasten¹ Spray Adjuvant or Pulse¹ Penetrant after mixing is complete and spray tank is filled to the required level. Maintain agitation while spraying.

APPLICATION

Cotton

Ground application: Ensure thorough coverage of foliage. Apply in a minimum spray volume of 50 L/ha.

Aerial application: Ensure thorough coverage of foliage. Apply using a minimum 20 L/ha spray volume.

Potatoes

Apply by ground or aerial application methods in sufficient water to ensure thorough coverage of infested foliage.

INSECTICIDE RESISTANCE WARNING

For insecticide resistance management, PRIMAL® is a

GROUP	4A	INSECTICIDE
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 Insecticide. Some naturally occurring insect biotypes resistant to PRIMAL® and other Group 4A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if PRIMAL® and other Group 4A insecticides are used repeatedly. The effectiveness of PRIMAL® 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 PRIMAL® to control resistant insects. PRIMAL® may be subject to specific resistance management strategies. For further information contact your local supplier, Adama Australia representative or local agricultural department agronomist.

Resistance Management

Use of PRIMAL® is subject to CroLife and/or Cotton Industry Insecticide Resistance Management strategies for silverleaf whitefly, cotton aphid and green peach aphid. Refer to the crop specific strategy prior to using PRIMAL®. Do not apply consecutive applications of Group 4A insecticides.

RE-ENTRY

Do not enter treated areas until the spray deposits have dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PRECAUTION

Do NOT use human flaggers/markers unless they are protected by engineering controls such as vehicles with enclosed cabs.

INTEGRATED PEST MANAGEMENT

Toxic to beneficial arthropods. Not compatible with integrated pest management (IPM) programs utilising beneficial arthropods. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

PROTECTION OF HONEY BEES AND OTHER INSECT POLLINATORS

Moderately toxic to bees. Harmful to bee brood. Acetamiprid has systemic action. DO NOT spray while bees are actively foraging. DO NOT allow spray drift to flowering weeds or flowering crops in the vicinity of the treatment area. Before spraying, notify beekeepers to move hives to a safe location with an untreated source of nectar and pollen, if there is potential for managed hives to be affected by the spray or spray drift.

STORAGE AND DISPOSAL

Store in the closed, original container in a well-ventilated area. Do not store for prolonged periods in direct sunlight. 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 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 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 swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves and face shield or goggles. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Wash hands after use. After each day's use wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, DO NOT induce vomiting. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If in eyes, wash out immediately with water.

SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for PRIMAL[®] INSECTICIDE is available at adama.com or call Customer Service on 1800 423 262.

CONDITIONS OF SALE: The use of PRIMAL[®] 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.

[®]Primal is a registered trademark of an Adama Group Company

[†]Other registered trademark

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