

# Intruder<sup>®</sup>

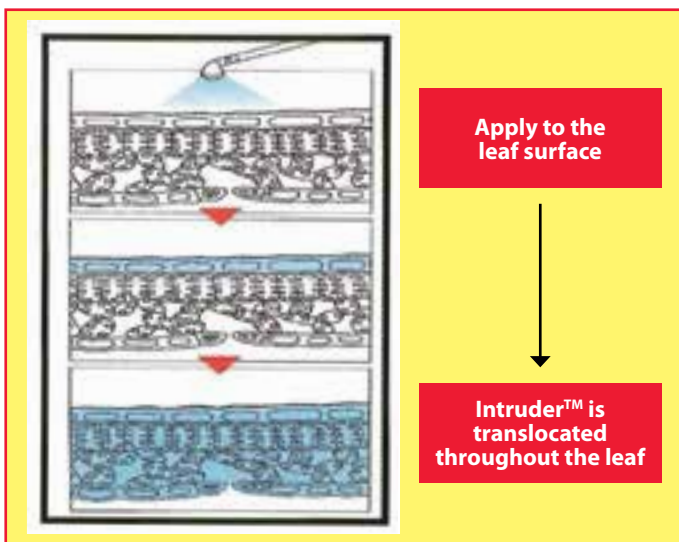
insecticide

## Dead Aphids - Dead Simple

### Intruder - Robust Aphid Control

Intruder is a highly effective insecticide that is fully translocated within the plant, to provide control of aphid and green mirid populations resistant to some current chemistry.

Intruder is registered for the control of cotton aphid in cotton, green peach aphid in potatoes and for the control of green mirids.



### 1. What is Intruder Insecticide?

Intruder is a systemic insecticide with translaminar activity, and works by both stomach and contact action.

The active ingredient in Intruder, acetamiprid, is a member of the chloronicotinyl group of compounds (insecticide class 4A), which includes imidacloprid and thiamethoxam.

These insecticides act by irreversibly binding to the postsynaptic nicotinic acetylcholine receptors in the arthropod's central nervous system, leading to over stimulation of the cholinergic synaptic cells resulting in hyperexcitation, convulsions, paralysis and death.

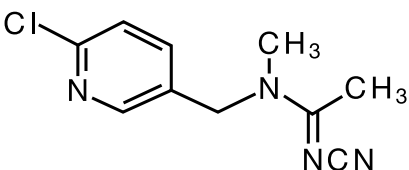
### 2. Benefits

- ✓ Excellent residual activity - 10 to 16 days
- ✓ IPM compatible
- ✓ Moderate to fast activity
- ✓ Easy to handle, mix and apply
- ✓ Physically compatible with a wide range of insecticides, herbicides and foliar fertilisers
- ✓ 10 day harvest withholding period - Cotton
- ✓ 7 day harvest withholding period - Potatoes
- ✓ Low use rate
- ✓ Stable in a wide range of water pH and temperature
- ✓ Good environmental profile

### 3. Intruder Use Pattern

Intruder is fast acting with control easily seen in two to three days after application. Intruder should be applied when populations reach the economic threshold and where residual control of aphids & mirids is desirable.

Intruder can be applied at any growth stage of the plant via ground rig or aircraft.



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## Intruder post-application checks

Aphids treated with Intruder will not show obvious symptoms to the naked eye, however the following characteristics will be evident:

- Cessation of feeding will occur quickly and honeydew production will cease
- Aphids will be agitated initially and then become paralysed
- Death normally occurs within 2 days depending upon the Intruder dose received
- Aphid carcasses will be easily visible on the treated leaves

## Activity on all instars

- Intruder is active on all aphid & mirid stages and will control nymphs and adults

## Intruder Use Rates

CROP	PEST	RATE	WHP
Cotton QLD, NSW, WA and NT only	Cotton aphid ( <i>Aphis gossypii</i> )	50 - 100 mL/ha + 0.2% Pulse® penetrant	10 days
	Green Mirid ( <i>Creontiades dilutus</i> )	100 mL/ha + 0.2% v/v organosilicone penetrant (e.g. DuPont Incide penetrant)	Target nymphs and/or adults when they reach the economic spray threshold. On above threshold AND increasing green mirid populations, suppression only may be observed.

### CRITICAL COMMENTS

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.

CROP	PEST	RATE	WHP
Potatoes All States	Green Peach aphid ( <i>Myzus persicae</i> )	200 mL/ha	7 days

### CRITICAL COMMENTS

Apply as a foliar spray when infestations reach a treatment (or 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). It is recommended that Intruder be applied with a **non-ionic wetter**. **DO NOT** apply more than 3 sprays per crop per season.

## Compatibility

Intruder is compatible with most commonly used insecticides, herbicides and foliar fertilisers.

PRODUCT GROUP	ACTIVE INGREDIENT OR TRADENAME
Feeding attractants	Aminofeed and Aminofeed UV
Foliar fertilisers	Agri K415, Balance Foliar, CRN 35, High NK, High NP, MaxZinc, NitroZinc 37, Polyphos, Reaction, SupaK 30, SupaN 32, SupaStand Phos, Supa Zinc, Triple 7, Zinc 75 and ZIP.
Growth regulator	mepiquat chloride
Herbicides	fluaizifop-p, glyphosate, sethoxydim.
Insecticides	<i>bacillus thuringiensis</i> , bifenthrin, chlorpyrifos, cypermethrin, deltamethrin, esfenvalerate, indoxacarb, lambda-cyhalothrin, spinosad, thiodicarb.

## 4. Physical Properties

### Formulation

Intruder is formulated as a 225 gai/L soluble liquid, and is a pale yellow transparent liquid.

### Water pH and spray mix stability.

Intruder is highly stable in solution where water pH = 4 - 9. Intruder should not be mixed with hot water. Degradation of the spray mix will occur where high pH water and high temperatures (30°C) are sustained.

### Residual activity in cotton

Intruder provides excellent residual control of aphids & mirids, but the lower the dose rate, the shorter the length of the residual control period. Where there are higher populations or a longer residual is required the 100mL/ha + Pulse rate should be used.

### Application

Intruder is registered for application by both ground and air.

### Aerial Application

- Apply a minimum of 20L/ha, and preferably 30L/ha
- Droplet size: ASAE S527\* Medium droplet spectrum

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## Ground rig application guidelines

- Intruder should be applied with flat fan nozzles, hollow cone nozzles are not recommended.
- Intruder can be applied as a broadcast or banded spray. Use a minimum of three nozzles over the row if band spraying Intruder on greater than a 50% band.
- Apply a minimum of 50L water/sprayed hectare.
- ASAE Medium droplet spectrum.

## 5. Intruder Withholding Periods

**DO NOT** harvest cotton for 10 days after application.

**DO NOT** harvest potatoes for 7 days after application.

**DO NOT** graze or cut for stock feed.

### Re-entry period

Intruder treated fields can be re-entered when the spray is dry.

[Wear protective clothing as listed on the label if prior entry is required.](#)

## 6. Insecticide Resistance Management Strategy (IRMS)

### Seasonal applications - Cotton

**DO NOT** apply more than two (2) foliar applications per crop per season (note: a neonicotinyl seed treatment counts as one spray).

**DO NOT** apply consecutive applications of neonicotinyl products.

The first foliar spray for aphid control following a neonicotinyl seed treatment must not be a neonicotinyl product.

When a neonicotinyl seed treatment is used, apply Intruder after a Pirimor (pirimicarb) or other non-neonicotinyl spray.

### Seasonal applications - Potatoes

**DO NOT** apply more than three (3) foliar applications per crop per season.

## 7. Safety to Beneficial Insects and plants

Intruder is classed as having a moderate impact on a diverse range of beneficial insects and spiders.

The maintenance of beneficial insect and spider populations help to control heliothis and other sucking pests, and their removal can result in increasing pest numbers.

SPECIES	INTRUDER IMPACT ON ARTHROPODS
Spiders	Negligible effect
Lacewings	Low
Predatory beetles	Moderate
Minute two-spotted ladybird	Very high
Predatory bugs	Unknown
Apple dimpling bug	Very high
Ants	Very high
Trichogrammatids	Unknown

- Treat aphid populations as they reach economic threshold levels.
- Intruder is not phytotoxic to cotton or potatoes.

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## Intruder<sup>®</sup> insecticide

### Dead Aphids - Dead Simple

- ✓ Controls resistant aphids
- ✓ Controls green mirids
- ✓ 10-16 days residual activity
- ✓ IPM compatible
- ✓ 10 day withholding period - Cotton
- ✓ 7 day withholding period - Potatoes
- ✓ Moderate to fast acting
- ✓ Easy to handle, mix and apply
- ✓ Physically compatible with a wide range of insecticides, fungicides and foliar fertilisers



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