

**READ SAFETY DIRECTIONS  
BEFORE OPENING OR USING**



# MAGNET®

**INSECT ATTRACTANT TECHNOLOGY**

<b>ACTIVE CONSTITUENTS:</b>	<b>5.68 g/L</b>	<b>ALPHA-PINENE</b>
	<b>5.20 g/L</b>	<b>ANISYL ALCOHOL</b>
	<b>10.40 g/L</b>	<b>BUTYL SALICYLATE</b>
	<b>5.07 g/L</b>	<b>CINEOLE (EUCALYPTOL)</b>
	<b>1.88 g/L</b>	<b>D-LIMONENE</b>
	<b>9.08 g/L</b>	<b>PHENYLACETALDEHYDE</b>

**For the integrated management of *Helicoverpa* spp.  
as specified in Directions For Use**

#### **SAFETY DIRECTIONS\***

Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When opening the container and preparing and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC, nitrile or neoprene gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

#### **FIRST AID\***

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126.

\* prior to using Magnet, refer to the Safety and First Aid directions on the insecticide label

Manufactured and distributed by:

**AG** Ag Biotech Australia Pty Ltd  
6/31 Bowman Street  
RICHMOND NSW 2753  
Ph.: 1800 242 519  
**BIOTECH AUSTRALIA** www.agbiotech.com.au

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APVMA Approval Number 58788/200/0808



#### **GENERAL INSTRUCTIONS**

Magnet is a combination of an insect attractant mixture and feeding stimulants, plus an added insecticide (sold separately), together designed to lure and kill moths of the target pests. By reducing the pest moth population, the number of eggs laid into a crop can be significantly reduced. This reduction in egg lay can either;

- Delay the need for foliar insecticides or;
- Reduce the subsequent pest pressure resulting in a lower burden on the performance of foliar insecticides and/or allow the use of softer control options.

The attractants in Magnet are a blend of plant volatiles produced by flowers and nectar of plants that moths use as an energy source, such as *Eucalyptus* spp. The product works by attracting moths to the Magnet treated rows where they feed on the product, thereby receiving a dose of the added insecticide causing their death. Moths within the treated crop or entering a crop from other areas are attracted to the treated rows. As only 1.4% of the crop area is treated (at the General Rate), only flying insects are able to move to treated rows.

Non-flying insects (such as larvae and nymphs of pest and beneficial insects, spiders and mites) and flying insects not attracted to the product (such as aphids and wasps) will not be affected by Magnet. All insects in the treated rows (flying and wingless) may be affected by the added insecticide. Depending on the insecticide used, dead moths of *Helicoverpa* spp. (along with other moth species) may be found on the ground around Magnet treated rows. Refer to the Insecticide List for speed of kill of each insecticide.

Magnet is water soluble and therefore not rain fast. Rainfall will wash the product from the plant surface and reapplication will be necessary to achieve maximum results.

**Mixing:** Pour the required quantity of Magnet into the spray tank. Use 20 litres of water to rinse each empty Magnet container, with rinsings added to the spray tank. Each 200 L container of Magnet will make 220 litres of Magnet Mixture (200 litres of Magnet + 20 litres of water from rinsing). 220 litres of Magnet mixture is sufficient to treat 317 hectares at the General Rate. For ground application, use this Magnet Mixture to calibrate the nozzle prior to adding the insecticide. The mixture used to calibrate the nozzle should be returned to the mixing vat. After calibrating the nozzle, add the required amount of insecticide as specified in the Insecticide List above and mix thoroughly. The mixture should be agitated during mixing and application to avoid settling of any components. The product should be applied as soon after mixing as possible.

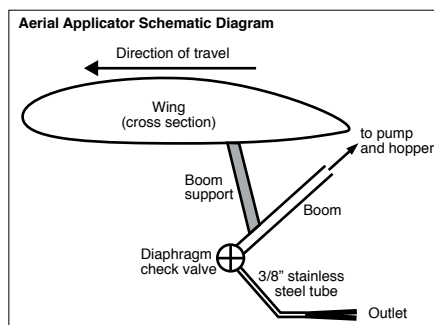
GENERAL INSTRUCTIONS continued over ...

## GENERAL INSTRUCTIONS (continued)

**Ground and Air Application:** Apply the Magnet Mixture (including insecticide) in bands (10 to 50 cm wide) on the crop with 72 (general rate) or 36 (high rate) metre spacings between bands - refer to the Directions For Use table to determine the appropriate spacing. Magnet is most effective when applied to leaves on the crop's outer canopy. Calibrate the nozzle (prior to adding the insecticide - see Mixing above) to deliver 500 millilitres of Magnet Mixture per 100 metres of treated crop. Application must result in coarse deposits of the Magnet Mixture (>3 mm in diameter) being visible on the crop. Larger deposits of the mixture on the crop canopy surface will improve Magnet's performance by improving the ability of moths to feed and by prolonging the product's effectiveness (up to 6 nights after application). Magnet is best applied in the late afternoon just prior to peak moth activity at night.

**Ground Application:** Use a 3 orifice liquid fertiliser nozzle e.g. Spraying Systems StreamJet SJ3-04-VP or equivalent. Larger sizes can be used where higher flow rates are needed. Use one nozzle per band and direct the streams to deposit the Magnet Mixture on the top of the crop canopy.

**Aerial Application (Cotton Only):** For boom set-up, see schematic diagram below. Use one nozzle positioned midway along the wing of the aircraft where minimum turbulence is experienced. It is recommended to use stainless steel 3/8 inch tubing attached to a CP nozzle body diaphragm (or equivalent), so the Magnet Mixture is delivered in thick streams. The end of the tube should be horizontal to the ground (outlet facing toward the rear of the aircraft) in order to minimise shattering. Do not apply Magnet by air until canopy closure has reached 50%. In row crops, Magnet can be applied at right angles to the direction of the rows.



This package of Magnet is sufficient for approximately 317 hectares of crop area when applied at the General Rate (72 metre spacing between bands)

## PRECAUTIONS\*

**Re-entry Period:** Avoid entering Magnet (plus insecticide) treated rows until 1 day after application. Entry to other (untreated) rows can be made immediately after treatment. Avoid entering treated rows up to 3 days after application when the Magnet deposits are moist from dew, light rainfall or high humidity. When prior entry is necessary, wear overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use. Magnet treated rows are distinguished by the blue dye used in the product. It is also recommended to mark treated rows with a peg to identify them. Re-entry periods that have been recommended for pesticides to be used in combination with this product must be observed following use.

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

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

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

DO NOT contaminate streams, rivers or waterways with chemical or used containers.

## STORAGE AND DISPOSAL\*

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

**Disposal:** Rinse container once with 20 litres of water and add rinsings to spray tank. Then, triple or preferably pressure rinse containers before disposal. Dispose of second rinsings in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. 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.

\* prior to using Magnet, refer to the Precautions, Protection Statements and Storage, Disposal, Safety and First Aid directions on the insecticide label.

## EXCLUSION OF LIABILITY

This product as supplied is of a high grade and suitable for the purpose for which it is expressly intended and must be used according to the directions. The user must monitor the performance of the product as climatic, geographical or biological variables and/or developed resistance may affect the results obtained. Ag Biotech Australia Pty Ltd accepts no responsibility in respect of this product except for those non-excludable statutory warranties implied by the Trade Practices Act or any State or Federal legislation.

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## DIRECTIONS FOR USE

Crop	Pest	Rate	Critical Comments
Cotton Green beans Sweet corn	<b>Moths of:</b> <i>Helicoverpa</i> spp.	500 mL of Magnet Mixture (refer to Mixing in General Instructions) per 100 metres of row applied in 10 to 50 cm bands with spacing between each band of:  72 metres (General Rate) OR 36 metres (High Rate)  <b>INCLUDING:</b> an insecticide selected from the Insecticide List below at the rate as specified (refer also to Mixing in General Instructions)	Use the General Rate when pest pressure is low to moderately high and relatively stable, based on district monitoring and egg numbers. Where pest pressure is very high or large spikes in moth and egg numbers are being seen, the High Rate will provide improved control of moths. Magnet is best applied just prior to an influx of moths (as determined by district monitoring). Where treatment prior to incursion of moths is not possible, Magnet should be applied based on first appearance of eggs (as determined by crop scouting) or at a key crop stage (e.g. first flower). A single application will kill a high proportion (50 to 80%) of moths in the treated area over the 4 to 6 days that Magnet is effective. Due to the high mobility of moths, reinfestation can occur quickly, so at least 2 applications should be made to achieve extended control. Following the first application, subsequent applications should be made at intervals of not less than 5 days. Short spray intervals (<7 days) will be required where continual influx of moths is being experienced (e.g. <i>H. punctigera</i> flights) or in smaller crop areas (<10 ha) where moths can reinfest the treated area more readily. Magnet is designed to lure moths of <i>Helicoverpa</i> spp. to the treated rows and stimulate them to feed on the Magnet. The added insecticide kills the moths, thereby reducing the level of egg lay in the crop. It has NO EFFECT ON EGGS OR LARVAE already present in the crop. Magnet (plus insecticide) will provide between 50 and 80% control of moths and this should lead to a comparable reduction in the number of eggs laid. However, factors such as reinfestation of moths from surrounding fields may reduce the performance of Magnet. It is important that normal crop scouting is performed to monitor pest levels in the crop.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION**  
**WITHHOLDING PERIOD: INSECTICIDE WITHHOLDING PERIOD PLUS 7 DAYS (refer to table below)**

## Insecticide List

Insecticide	Concentration	Brand names <sup>1</sup>	Rate per litre of Magnet Mixture (refer to Mixing in General Instructions)	Amount required per 200 L pack of Magnet	Crops	Withholding periods when mixed with Magnet	Speed of kill after ingestion by moth <sup>3</sup>
Methomyl	225 g/L	Electra 225 Insecticide Lannate-L Insecticide Marlin 225 Insecticide Nudrin 225 Insecticide	20 mL	4400 mL	Cotton Green beans Sweet corn	8 days (H&G) 7 days (H) <sup>2</sup> 10 days (H&G)	Fast
Thiodicarb	375 g/L	Larvin 375 Insecticide Showdown 375 Insecticide	20 mL	4400 mL	Cotton Sweet corn	28 days (H & G) 14 (H) & 28 (G) days	Fast
Spinosad	480 g/L	Tracer Naturalyte Insect Control	3 mL	700 mL	Cotton	5 weeks (H) <sup>2</sup>	Slow
Spinosad	125 g/L	Tracer II Naturalyte Insect Control	11 mL	2400 mL	Cotton	5 weeks (H) <sup>2</sup>	Slow
Spinosad	120 g/L	Success Naturalyte Insect Control	11 mL	2400 mL	Sweet corn	7 days (H) <sup>2</sup>	Slow

Note: wetting agents are not required

<sup>1</sup> Not all brands of each insecticide may be listed and brands listed are trademarks of the respective owners. Prior to using any of the above insecticides read the insecticide label.

<sup>2</sup> Do not graze or feed treated crops to animals.

<sup>3</sup> Fast killing insecticides will allow dead moths to be found next to Magnet treated rows.

H = Harvest withholding period

G = Grazing withholding period