

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



ACTIVE CONSTITUENTS:

**10.40 g/L BUTYL SALICYLATE
9.08 g/L PHENYLACETALDEHYDE
5.68 g/L ALPHA-PINENE
5.20 g/L ANISYL ALCOHOL
5.07 g/L EUCALYPTOL
1.88 g/L D-LIMONENE**

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



Contents: 625 mL, 1 L, 20 L, 200 L, 1000 L

Manufactured by: AgBiTech Pty Ltd, 8 Rocla Court Glenvale QLD Australia 4350

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. 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 3 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.

DIRECTIONS FOR USE

Crops	Pest	Rate	Critical Comments
Cotton	Moths of: <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:	Use the General Rate when pest pressure is low to moderately high and relatively stable, based on district monitoring and egg numbers.
Green beans		72 metres (General Rate) OR 36 metres (High Rate)	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.
Sweet corn			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).
Maize		INCLUDING: an insecticide selected from the Insecticide List below at the rate as specified (refer also to Mixing in General Instructions)	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 the Insecticide List below)

INSECTICIDE LIST

ACTIVE INGREDIENT Brand names ¹	Active ingredient concentration	Rate per litre of Magnet	Crops registered for use (not all registered crops listed)	Withholding period to harvest (days)	Withholding period to grazing (days)	Speed of kill ²
METHOMYL Electra 225 Insecticide Lannate-L Insecticide Nudrin 225 Insecticide	225 g/L	20 mL	Cotton	7	Do not graze or feed treated crops to animals	Fast
			Green beans	8	Do not graze or feed treated crops to animals	
			Sweet corn	8	10	
			Maize	21	21	
THIODICARB Larvin 375 Insecticide Showdown 375 Insecticide	375 g/L	20 mL	Cotton	28	28	Fast
			Sweet corn	14	28	
			Maize	14	14	
SPINOSAD Entrust Organic Insecticide	240 g/L	8 mL	Green beans	10	21	Slow
			Sweet corn	7	21	
SPINETORM Success Neo Insecticide	120 g/L	8 mL	Cotton	35	Do not graze or feed treated crops to animals	Slow
			Green beans	10	21	
			Sweet corn	10	10 Do not feed sweet corn forage or fodder to lactating dairy animals producing milk for human consumption	

Note: wetting agents are not required

¹Not 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.

²Fast killing insecticides will allow dead moths to be found next to Magnet treated rows.

GENERAL INSTRUCTIONS

Spray applications and drift risk assessment

DO NOT apply treatments by aircraft in situations where drift onto sensitive crops, pastures or desirable trees is likely to occur.

Apply treatments using settings to produce a COARSE spray quality.

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 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. For ground application, calibrate the nozzle prior to adding the insecticide. The mixture used to calibrate the nozzle should be returned to the spray tank. After calibrating the nozzle, add the required amount of insecticide as specified in the Insecticide List above and mix thoroughly. The Magnet plus insecticide 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.

Ground and Air Application: Apply the Magnet plus insecticide mixture in narrow bands (20 to 100 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 per 100 metres of treated crop. Application must result in coarse deposits of Magnet (>2 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 very coarse flat fan nozzle e.g. Spraying Systems TeeJet XR8010. Larger sizes can be used where higher flow rates are needed – avoid using high pressure. Use one nozzle per band and direct the spray to deposit Magnet on the top of the crop canopy.

Aerial Application: 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%. Magnet can be applied at right angles to the direction of the crop row.

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 and elbow-length rubber gloves. Clothing must be washed 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 insecticides mixed with Magnet 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.

Direct spray contact or even slight drift may cause severe injury or destruction of any growing crop or other desirable plants including trees and native vegetation.

DO NOT use when breeze is blowing towards nearby desirable plants.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT*

DO NOT contaminate streams, rivers or watercourses 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: Triple-rinse containers before disposal. Dispose of rinsate or any undiluted chemical according to state/territory legislative requirements. If recycling, replace cap and return clean containers to recycler or 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.

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 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 13 11 26, New Zealand 0800 764 766.

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

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet.

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 contained in this label. The user must monitor the performance of the product as climatic, geographical or biological variables and/or developed resistance may affect the results obtained. AgBiTech 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.

Manufactured and distributed by:

AgBiTech

AgBiTech Pty Ltd
8 Rocla Court
Glenvale QLD 4350
Australia
Ph: 1800 242 519
www.agbitech.com.au



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APVMA Approval Number 58788/131922

