



FARMALINX

All-Star Turf

INSECTICIDE

ACTIVE CONSTITUENT: 200 g/L CHLORANTRANILIPROLE

GROUP **28** INSECTICIDE

**For the control of African Black Beetle,
Argentine Stem Weevil, Argentinian Scarab,
Billbugs and other insect pests in turf as per
the Directions for Use**

IMPORTANT: READ THIS LEAFLET BEFORE OPENING OR USING

farmalinx *Partners in Agriculture*

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750mL

DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply when the soil is saturated with water as adequate distribution of the active ingredient vertically in the soil profile cannot be achieved under this condition

DO NOT apply more than 2.8 L per hectare per year in broadcast applications to turfgrass

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 zone in the relevant buffer zone table below provides 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 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 1 to 2 hours before sunset and persist until 1 to 2 hours after sunrise.

DO NOT apply by a boom sprayer unless the following requirements are met:

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

Buffer zones for boom sprayers

Application Rate	Mandatory downwind buffer zones
	Natural aquatic areas
Up to maximum label rate	10 metres

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Situation	Pest	Rate/ha	Critical Comments
Applications should not be made when the soil is saturated with water because adequate distribution of the active ingredient vertically in the soil profile cannot be achieved under this condition. As is the case with any insecticide applied to turfgrass for beetle larvae control, optimal results will be achieved if the product is irrigated into the turf immediately after application.			
Golf courses, Lawns including commercial and residential lawn areas, Sports grounds, Other sport and recreational turfgrass areas	Beetle larvae including African Black Beetle (<i>Heteronychus arator</i>)	750 mL to 1.5 L	Apply before or at peak egg hatch for maximum control (typically mid September). Apply the higher rate for early season (mid September) application where long residual protection is required, or in later season applications (mid December onwards) when less sensitive mid instar grubs are present at the time of application, or in cases of high pest pressure.
	Argentinian Scarab (<i>Cyclocephala signaticollis</i>)		Apply before or at peak egg hatch for maximum control (typically mid December). Use the higher application rates for later season applications when less sensitive mid instar grubs are present at the time of application or in cases of high pest pressure.
	Argentine Stem Weevil larvae (<i>Listronotus bonariensis</i>), Billbug larvae (<i>Sphenophorus brunnipennis</i>)		Apply early season (mid September) applications when overwintered adults are first observed, to prevent damage and population build up. Early application is essential to prevent grass damage due to feeding. Use the higher application rates when extended residual performance is required or for later season applications (mid December onwards) or in cases of high pest pressure.
	Caterpillars including Black Cutworm (<i>Agrotis ipsilon</i>), Lawn Armyworm (<i>Spodoptera mauritia</i>), Sod Webworm (<i>Herpetogramma licarsisalis</i>),	750 mL	To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application.

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

WITHHOLDING PERIODS

DO NOT GRAZE TREATED TURF/LAWN OR FEED TURF/LAWN CLIPPINGS FROM ANY TREATED AREA TO POULTRY OR LIVESTOCK

GENERAL INSTRUCTIONS

Farmalinx ALL-STAR Turf Insecticide is an anthranilic diamide insecticide in the form of a suspension concentrate. ALL-STAR delivers excellent preventative performance, with optimal results achieved with application early in the season (mid September) with the appearance of over wintering adult pests. The long residual performance of ALL-STAR will provide up to 6 months protection at the higher application rates. Curative control with ALL-STAR on pest outbreaks later in the season (mid December onwards) can be achieved using the higher recommended application rates.

MIXING

Prior to mixing, start with clean, well maintained application equipment.

Fill spray tank to ¼ to ½ full of water. Measure the amount of ALL-STAR required for the area to be sprayed. Add ALL-STAR directly to spray tank with the agitation engaged. Mix thoroughly to disperse the insecticide. Once dispersed, the material must be kept in suspension at all times by continuous agitation.

Use mechanical or hydraulic means, DO NOT use air agitation, premix or slurry.

If spray solution is left standing, ensure thorough re-agitation of the spray mix until fully resuspended. DO NOT allow spray mix to sit overnight, as resuspension may be difficult.

COMPATIBILITY

As formulations of other manufacturer's products are beyond the control of Farmalinx, and the quality of water may vary with location, all mixtures should be tested prior to mixing commercial quantities.

APPLICATION

- Apply extremely coarse droplets using nozzles such as Turbo Floodjet* (TF5) or Turfjet* (TTJ10).
- Spray with at least 400 L of water/ha to ensure even coverage.
- The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice.
- Note that the amount of product specified in the Directions for Use is per hectare of product. You will need to determine your spray rate per hectare before deciding on the amount of product to add to the tank.
- For optimal control, irrigate with approximately 6 mm of water immediately after application (except where treating for caterpillars, when irrigation and mowing should be delayed for 24 hours).

Spray Timing

African Black Beetle / Argentinian Scarab: ALL-STAR may be applied from spring onwards for preventative control of these species infesting turfgrass. The need for an application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods.

Argentine Stem Weevil / Billbug: ALL-STAR should be applied with over wintered adults are first observed in early spring (mid September) to prevent damage in late spring. An application at this time will also give excellent control of African Black Beetle.

Caterpillars: ALL-STAR will provide excellent curative caterpillar control in turfgrass and should be applied when pests/damage is observed.

Spray Equipment Cleanout

Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove. Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water. Clean all other associated application equipment.

Take all necessary safety precautions when cleaning equipment. DO NOT clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

INSECTICIDE RESISTANCE WARNING

For insecticide resistance management Farmalinx ALL-STAR Turf Insecticide is a Group 28 insecticide.

GROUP 28 INSECTICIDE

Some naturally occurring insect biotypes resistant to ALL-STAR and other Group 28 insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if ALL-STAR and other Group 28 insecticides are used repeatedly. The effectiveness of ALL-STAR on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Farmalinx Pty Ltd accepts no liability for any losses that may result from failure of ALL-STAR to control resistant insects. ALL-STAR may be subject to specific resistance management strategies. To help prevent the development of resistance to ALL-STAR, use ALL-STAR in accordance with the current Insecticide Resistance Management (IRM) strategy for your region. For further information contact your supplier, Farmalinx representative or local agricultural department agronomist.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to aquatic invertebrates. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighbouring areas. DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN.

Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple-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 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 Local, State or Territory government regulations. DO NOT burn empty containers or product.

FIRST AID

First aid is not generally required. If in doubt, contact a Poisons Information Centre (phone Australia 13 11 26; New Zealand 0800 764 766 or a doctor).

SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for Farmalinx ALL-STAR Turf Insecticide is available from Farmalinx Pty Ltd on request. Call Customer Service on 02 9389 2455.

CONDITIONS OF SALE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty (other than non-excludable statutory warranties) of merchantability or fitness for a particular purpose, express or implied, extends to the use of product contrary to label instructions, or under off-label permits not endorsed by Farmalinx Pty Ltd or under abnormal conditions. Farmalinx Pty Ltd accepts no liability for any loss or damage arising from incorrect storage, handling or use.

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