BAYER

Tetrino®

The smart *play*

Up your game with Tetrino

// Insects Controlled

> Scarab larvae:
- African black beetle
- Argentine scarab

> Billbug larvae

> Argentine stem weevil larvae

> Caterpillars:
- Lawn armyworm
- Cutworm
- Sod webworm

// Areas of Use

Turf including golf courses, bowling greens, sports fields, race tracks, recreational lawns and turf farms.

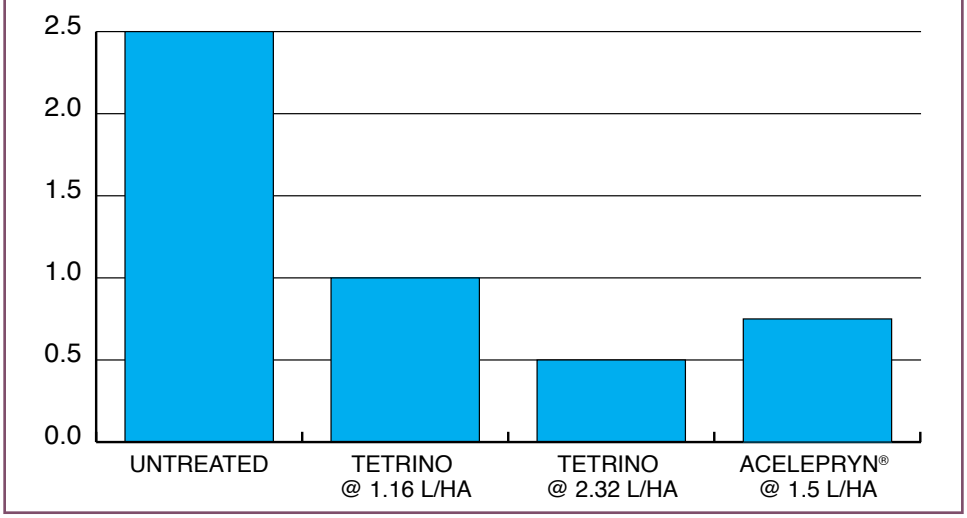
Introducing Tetrino® Turf Insecticide, a new insect control solution from Bayer, offering an unmatched combination of performance, ease of use and efficiency.

Delivering fast control and lasting protection against a broad-spectrum of turf insect pests with a low rate of active ingredient, Tetrino is the smart play for flexible and sustainable insect control.

// Features & Benefits

Features	**1. Effective**	*Benefits*
Best in class control of both scarab larvae and stem weevil, as well as turf damaging caterpillars		A single product that provides reliable control of tough insect infestations
Fast-acting with immediate feeding cessation		Peace of mind that turf is protected and that application does not need to be made any earlier than required
	2. Efficient	
Lowest amount of active ingredient applied compared to other Group 28 insecticides registered in turf, see Fig. 2		A sustainable solution with less active ingredient loading in the environment
	3. Easy to use	
Preventative and early curative efficacy against a broad-spectrum of insect pests		Optimises application timing flexibility to ensure season long protection
Not a scheduled poison and no re-entry period		A high level of peace of mind for safety of applicators and the general public

Figure 1. Argentine scarab – Trial Number: WR-Tetrino-ABB/ArgScarab2019BAY408 (larvae per 4 plugs five months after treatment)

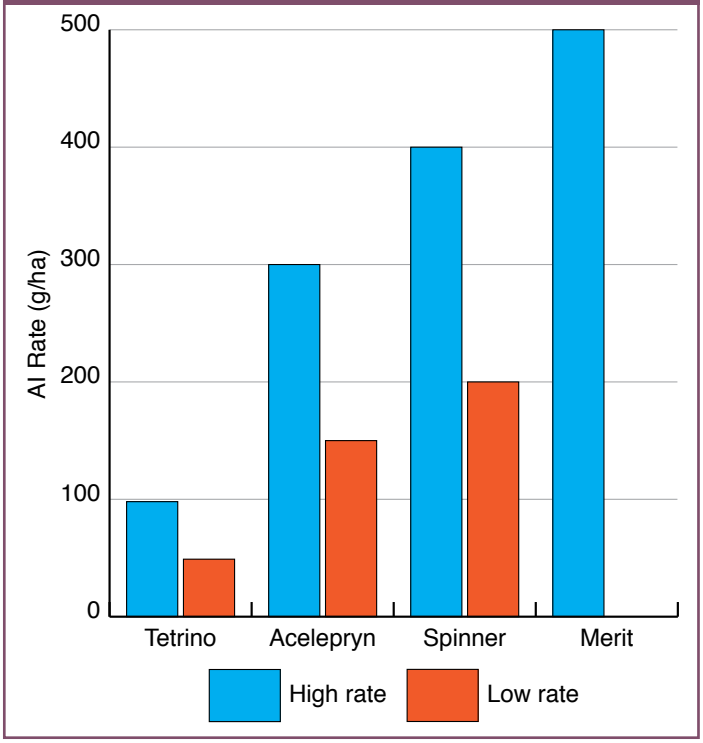


Science for a ***better life***

Tetrino®

DIRECTIONS FOR USE			
Situation	**Pest**	**Rate**	**Critical Comments**
			Apply a maximum of 4.6 L/ha per year.
Turf	Scarab larvae including African black beetle (*Heteronychus arator*); Argentine scarab (*Cyclocephala signaticollis*)	1.15 - 2.3 L/ha	Apply to mown turf in a minimum application volume of 200 L/ha and irrigate treated areas after application with up to 4 mm water. Apply the higher rate in situations of high pest pressure or when long residual protection is required. Apply as a preventative treatment before or at peak egg hatch which is typically mid-spring to mid-summer depending on species and location, or as a curative application when small larvae are present.
	Billbug larvae (*Sphenophorus brunnipennis*)		Apply to mown turf in a minimum application volume of 200 L/ha and irrigate treated areas after application with up to 4 mm water. Apply the higher rate in situations of high pest pressure or when long residual protection is required. Monitor adult activity through spring and early summer. Apply as a preventative treatment when adult numbers peak, or as a curative treatment when small larvae (4 mm) are found in the thatch or surface soil. Early application is essential to minimise grass damage due to feeding.
	Argentine stem weevil larvae (*Listronotus bonariensis*)		Apply to mown turf in a minimum application volume of 400 L/ha. Apply the higher rate in situations of high pest pressure or when long residual protection is required. Monitor adult activity through spring and early summer. Apply as a preventative treatment when adult numbers peak, or as a curative treatment when first visual symptoms of damage occur. For control of subsequent generations make applications as needed during the season.
	Caterpillars including Lawn armyworm (*Spodoptera mauritia*); Cutworm (*Agrotis* spp.); Sod webworm (*Herpetogramma* spp.)	1.15 L/ha	Apply to mown turf in a minimum application volume of 400 L/ha. Apply when insects or damage first appear. Re-apply as needed. Delay watering and mowing for 24 hrs after application.
NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION			

Figure 2. Comparison of active ingredient applied per hectare - Tetrino vs industry standards



High density scarab larvae populations found beneath damaged turf.

Your Success, *Our Science*

// *Best Practice Guidelines*

// Insect lifecycle

> An understanding of the insect lifecycles in your location/ region is valuable to develop the optimum timing of application and maximise control. Consult previous records and/or monitor for insect activity and lifecycle stages throughout the spring and early summer.

// Application

> Good control requires good coverage. Application should be made using sufficient water to ensure thorough, uniform coverage. Apply in a minimum of 200 L waterh/ha when applying to soil pests that require follow-up irrigation or rainfall to move the product to the soil. For other insect pests, apply in a minimum water volume of 400 L water/ha.

// Mixing

> Ensure that the spray is clean and free of residues. If necessary, wash out the sprayer with water and detergent before use and treat washings as hazardous waste. Fill the sprayers with half the required volume of water. Measure out precisely the required quantity of product and pour carefully into the spray tank. Complete the filling of the sprayer with water to the appropriate level and agitate.

Product Profile

Active Ingredient: 42.8g/L Tetraniliprole

Chemical Group: Group 28 Insecticide

Formulation Type: Suspension Concentrate

Pack sizes available: 3 L

Product safety

Poison schedule: Exempt/Non-scheduled.
PPE: None specified.
Wash hands after use.
No re-entry period required.

Regulatory information

All pesticides are regulated under the Agricultural and Veterinary Chemicals Act to ensure that they do not pose an unacceptable risk to human health and the environment.

For information regarding pesticide regulatory process please visit the Australian Pesticides and Veterinary Authority website at www.apvma.gov.au

Frankston Golf Club Testimonial – Josh Boyle

Area Sprayed 4th and 6th Fairways 29/10/20.

The 4th and 6th Fairways at Frankston Golf Club have a history of African black beetle infestation.

Foxes and birds damage the turf looking for these black beetles creating an undesirable surface for the members.

Previously the African black beetle has been controlled with bifenthrin or Acelepryn (Chlorantraniliprole). These chemicals sometimes needed multiple applications throughout a season.

For this trial, other fairways on the course were sprayed in our regular annual insecticide program. Tetrino was was just as good if not better as we sprayed it in the most affected areas.

Tetrino appealed to us as it was not a scheduled poison and allowed for more flexibility with application timing and rates, as well as the large range of pests controlled.

As seen in this photo, there was fox and bird damage through the season on the line of the fairway where Tetrino was not sprayed, but where it had been sprayed there was no pest damage at all.

Tetrino has done a fantastic job and has provided season long coverage from pest damage. We have seen little if any pest damage on the turf. I would highly recommend it to turf managers and will use it again in the future.