

**CAUTION**  
**KEEP OUT OF REACH OF CHILDREN**  
**READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

 **Tempo® Xtra**

**TURF AND ORNAMENTAL INSECTICIDE**

**ACTIVE CONSTITUENTS**      **50 g/L IMIDACLOPRID**  
   **25 g/L BETA-CYFLUTHRIN**

**GROUP 3A 4A INSECTICIDE**

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A residual insecticide concentrate for the control of various insect pests in turf and ornamental plants and for control of various pests in domestic, commercial, industrial and public buildings and facilities as per the Directions for Use.

\*0.5 L-10 L



**DIRECTIONS FOR USE****RESTRAINTS**

DO NOT apply spray treatment outdoors if heavy rains are expected to occur within 48 hours of application, or if area is about to be irrigated, unless indicated in the directions below.

DO NOT apply using spraying equipment carried on the back of the user.

SITUATION	PEST	RATE	CRITICAL COMMENTS
TURF			<b>Dangerous to bees. Refer to Protection of Livestock. Do not apply by aircraft. Do not apply more than three times per year.</b>
	Lawn armyworm ( <i>Spodoptera mauritia</i> ) Cutworm ( <i>Agrotis</i> spp.) Webworm ( <i>Herpetogramma</i> spp.)	2- 4 L/ha	Apply to mown turf in a minimum application volume of 200 L/ha (or 2 L/100 m <sup>2</sup> ) and irrigate treated areas after application with up to 4 mm water. Application after mowing is recommended to minimise loss of insecticide in clippings. Apply when insects or damage first appear. For severe infestations, repeat every 7 to 14 days as needed.
	Adult Argentine stem weevil ( <i>Listronotus bonariensis</i> ) Adult Billbug ( <i>Sphenophorus brunnipennis</i> ) Adult scarabs including African black beetle ( <i>Heteronychus arator</i> ); Mole crickets ( <i>Gryllotalpa</i> spp.) Couch mite ( <i>Aceria cynodontis</i> ) Ants	5 L/ha	Couch mite are only found in couch varieties of turf. Industry thresholds are set at 4 – 8 stunted tufts (witches brooms) per 100 cm <sup>2</sup>
	First instar larvae of African black beetle; Argentinian scarab Pruinose scarab	5 L/ha plus 1.25 L/ha MERIT Turf and Ornamental Insecticide	Apply mixture at peak egg hatch which is mid-spring to mid-summer depending on species.
	Larvae of billbug	Spray with at least 400 L water / ha to ensure even coverage. Preferably spray on dewy grass. Irrigate with 5 to 12 mm of water commencing within one to 24 hours of application.	Monitor adult activity through late spring and early summer. Spray when numbers peak, or when small larvae (4 mm) are found in the thatch or surface soil. Early application is essential to minimise grass damage due to feeding.
	Grasshoppers	400 mL / ha	Apply when grasshoppers are active. Apply by ground based equipment only. Adequate coverage is essential for effective control

SITUATION	PEST	RATE	CRITICAL COMMENTS
ORNAMENTAL PLANTS including but not limited to: Roses, Azaleas, Hibiscus, Pelargoniums, Magnolia, Melaleuca, Eucalyptus, Viburnum, Camellia, Azalea and Lillypilly	Aphids; Bugs (e.g. passionvine hopper, mealy bug, lace bug); Caterpillars; Garden weevil; Whiteflies; Thrips	2 – 4 mL / 5 L water or 40 – 80 mL / 100 L water	Apply directly to the plants as a foliar spray. Spray foliage thoroughly when insects are first seen or if they reappear. Spray underneath leaf surfaces. Apply until leaves are evenly coated with spray but not dripping. DO NOT spray if it is raining or about to rain. Controlling these insects may assist in ant management programs where ants are foraging. Ensure adequate coverage of the plant, focusing on areas where ants are actively seen tending honeydew producing insects.
	Hibiscus flower beetle	80 mL / 100 L water plus 30 mL / 100L water MERIT Turf and Ornamental Insecticide	Spray buds and flowers as needed.
	Longtailed mealybug	80 mL / 100 L water plus 30 mL / 100L water MERIT Turf and Ornamental Insecticide	Apply 3 sprays 2 weeks apart. Use a non-ionic surfactant at label rate.
	Psyllids	80 mL / 100 L water plus 30 mL / 100L water MERIT Turf and Ornamental Insecticide	Spray at first sign and then a week later
	Soft scales		Spray in late spring or when small scales are first seen. Apply 3 sprays 2 weeks apart. Add a wetting agent.
Domestic, commercial, industrial and public buildings and facilities (including but not limited to farm buildings, offices, storerooms, private houses and external areas associated with such establishments)			Best-Practice Recommendation: <ul style="list-style-type: none"> <li>• Estimate area of surface which needs to be treated.</li> <li>• Calibrate spray equipment to identify volume of spray necessary to achieve coverage of target area.</li> <li>• Measure out required volume of Tempo Xtra and mix according to General Instructions below.</li> <li>• DO NOT exceed point of run-off.</li> <li>• Non-porous surfaces: Apply as a coarse spray.</li> </ul> <p style="text-align: right;"><i>...continued...</i></p>

SITUATION	PEST	RATE	CRITICAL COMMENTS
Domestic, commercial, industrial and public buildings and facilities (including but not limited to farm buildings, offices, storerooms, private houses and external areas associated with such establishments)	Ants	Non-porous surfaces: 50 mL / up to 5 L water / 100 m <sup>2</sup> Porous surfaces or through use of power equipment: 50 mL / up to 10 L water / 100 m <sup>2</sup>	<p><b>DIRECT NEST TREATMENT:</b> Where possible locate the nest and spray directly into nest entrances. Penetration of insecticide can be assisted by pre-wetting sandy and porous soils with water. A thorough soaking treatment with insecticide mixture is required to destroy the nest.</p> <p><b>TREATMENT WHEN NESTS CANNOT BE LOCATED:</b> Apply to all ant trails and areas where ants are foraging. Search for ants underneath materials (e.g. rocks, timber) and apply to these areas.</p> <p>Where indoor infestation has been identified it is recommended that an external perimeter treatment be installed (refer below) and that indoor areas are treated with a suitably registered bait product such as from the Maxforce ant bait range.</p> <p><b>EXTERNAL PERIMETER TREATMENTS:</b> Apply to all potential entrance points of the structure (e.g. cracks and crevices in brickwork and gaps in timber weatherboards). Treat the outside of the structure; walls, and around doors, windows, and other areas where ants are active or may enter or hide. Ensure application in wall voids or other enclosed cavities is made with spray nozzle adjusted to produce a fine mist in order to avoid run-off. Treat the soil, turf or other ground covering adjacent to the structure (in a band up to 3 metres wide) where ants are seen, have been found, or can find shelter.</p>
	Cockroaches		<p>Conduct a thorough inspection and apply to known and potential cockroach harbourages. A barrier application around areas where cockroach infestations may be originating is also suggested.</p> <p><b>NOTE:</b> The use of an Insect Growth Regulator (such as STARYCIDE® Insect Growth Regulator) is considered a useful supplementary treatment for cockroach control when cockroach infestation is severe.</p> <p>Repeat application as required. Where application of a spray is not suitable it is recommended that a suitably registered gel such as from the MAXFORCE® Gel range be applied as per the registered label on that product.</p>
	Crickets		<p>Spray infested areas. In addition a barrier treatment can be sprayed across areas where these pests enter buildings.</p>
Domestic, commercial, industrial and public buildings and facilities (including but not limited to farm buildings, offices, storerooms, private houses and external areas associated with such establishments)	Mosquitoes and flies	Non-porous surfaces: 50 mL / up to 5 L water / 100 m <sup>2</sup> Porous surfaces or through use of power equipment: 50 mL / up to 10 L water / 100 m <sup>2</sup>	<p>Spray surfaces where flies and mosquitoes are known to come to rest.</p> <p>Flies – include external surfaces that are exposed to the morning sun.</p> <p>Mosquitoes – spray walls, awnings, fences and vegetated areas in proximity to buildings. <b>DO NOT</b> apply to edible plants.</p> <p><b>NOTE:</b> The perception of the level of control of flying insects achieved within any given area treated with a residual surface spray will be affected by the extent of in-migration of individuals from external (untreated) areas. A residual surface spray will only control those insects that alight on the treated surfaces and therefore complete elimination of flying insects from the treated area should not necessarily always be expected.</p>

SITUATION	PEST	RATE	CRITICAL COMMENTS
Domestic, commercial, industrial and public buildings and facilities (including but not limited to farm buildings, offices, storerooms, private houses and external areas associated with such establishments)	Millipedes	Non-porous surfaces: 50 mL / up to	Apply as a coarse spray to infested areas. Recommended for use on non-porous surfaces only.
	Paper nest wasps	5 L water / 100 m <sup>2</sup> Porous surfaces or through use of power equipment: 50 mL / up to	Apply diluted spray to the point of run-off directly to the paper nest ensuring thorough and even coverage. When all adult wasps have been knocked down the nest may be safely removed from the structure.
	Spiders	10 L water / 100 m <sup>2</sup>	Apply to areas where spiders are known to occur, their webbing and areas where spiders may hide. It is recommended that any webbing is left in place for a few days after application to optimise efficacy.
Internal areas and surrounds of domestic, commercial, industrial and public buildings and facilities	Fleas	Non-porous surfaces: 50 mL / up to 5 L water / 100 m <sup>2</sup> Porous surfaces or through use of power equipment: 50 mL / up to 10 L water / 100 m <sup>2</sup>	Clean and vacuum infested areas and dispose of dust collected in the garbage in a sealed plastic bag. Lightly spray infested areas concentrating on areas under furniture etc. NOTE: The use of an Insect Growth Regulator (such as Starycide Insect Growth Regulator) is considered a useful supplementary treatment for flea control. Treat pets with a suitably registered flea control product. See also the note on application to carpets below.
External areas and surrounds of domestic, commercial and public buildings and structures, untended verges, surrounds of sporting venues etc. and other areas where ticks are found.	Ticks (not paralysis ticks)	Non-porous surfaces: 50 mL / up to 5 L water / 100 m <sup>2</sup> Porous surfaces: 50 mL / up to 10 L water / 100 m <sup>2</sup>	Apply to outside surfaces of buildings and surrounds including but not limited to foundations, soil, turf, trunks of woody ornamentals and other areas where ticks congregate or have been seen. This treatment is intended to control ticks which are present at the time of application. Repeat application may be required during times of high tick activity. When used in domestic garden situations where domestic pets are present, it is recommended that the animals also be treated with an appropriately registered ectoparasiticide.

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

#### RE-ENTRY

DO NOT enter treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

#### GENERAL INSTRUCTIONS

##### Mixing

Add the required quantity of **Tempo Xtra** to water while stirring.

##### Application

DO NOT spray the moving parts of any machinery, electric motors or switchgear with the water-based product.

##### Compatibility

**Tempo Xtra** is compatible with Starycide Insect Growth Regulator and Merit Turf and Ornamental Insecticide.

#### INSECTICIDE RESISTANCE WARNING

GROUP	3A	4A	INSECTICIDE
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For insecticide resistance management **Tempo Xtra** is a Group 3A & 4A insecticide. Some naturally occurring insect biotypes resistant to **Tempo Xtra** and other Group 3A and 4A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if **Tempo Xtra** or other Group 3A and 4A insecticides are used repeatedly. The

effectiveness of **Tempo Xtra** on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Bayer CropScience Pty. Ltd. accepts no liability for any losses that may result from failure of **Tempo Xtra** to control resistant insects.

For further information on managing insecticide resistance contact your local supplier or Bayer Environmental Science representative.

### **PRECAUTIONS**

For surface treatment only – DO NOT spray into the atmosphere using foggers or other devices designed to create an aerosol.

DO NOT spray directly on humans, exposed food or food utensils or food preparation areas.

DO NOT spray clothing.

Avoid contact of spray with timber to which a stain is subsequently to be applied, unless the owner is notified that the timber will need additional preparation, consistent with that if water alone had contacted the timber. (Evidence of water contact on timber is sometimes only evident once the stain has been applied).

**BEFORE USE** - Remove or cover all exposed foodstuffs. Cover all dishes and utensils and surfaces where food is prepared.

**AFTER USE** - Thoroughly ventilate treated areas. Clean up thoroughly before processing/serving resumes.

### **NOTE ON APPLICATION TO CARPETS**

Whilst carpets are regarded as porous surfaces, excessive liquid application may produce water-stains and therefore the non-porous surface rate should be adopted if possible. Hence for short pile carpet, the 5 L dilution rate (per 100 m<sup>2</sup>) should be sufficient. However, for long pile or shag carpet, the 10 L dilution rate (per 100 m<sup>2</sup>) may be required, to ensure effective penetration and application to all of the carpet-pile. Since carpets vary in their thickness, colour and material it is recommended that a small, inconspicuous area of carpet be sprayed and allowed to dry first to ensure that staining will not occur. Allow treated carpets to dry before resuming activity on them.

### **NOTE ON ORNAMENTALS AND NATIVE PLANTS**

TEMPO XTRA has been used on a wide range of ornamental plant species without damage. However, some species and varieties are particularly sensitive to chemical sprays and as this is often related to local conditions it is advisable to treat only a small number of plants first, in order to ascertain their reaction before treating the whole crop.

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

Refer to Note on Ornamentals and Native Plants.

### **PROTECTION OF LIVESTOCK**

Dangerous to bees. DO NOT spray any plants in flower while bees are foraging. DO NOT graze treated turf or feed turf clippings from any treated area to poultry or livestock.

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

Toxic to mammals. Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers. Cover fish tanks before using. Toxic to beneficial arthropods. Not compatible with integrated pest management (IPM) programs utilising beneficial arthropods. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas.

**STORAGE AND DISPOSAL:** Store in tightly closed, original container in a safe, well ventilated area, as cool as possible. 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 relevant Local, State or Territory government regulations. DO NOT burn empty containers or product. Do not re-use empty containers for any other purpose.

### **SAFETY DIRECTIONS**

May irritate the skin and eyes. Avoid contact with skin and eyes. When preparing product for use and using the prepared spray, wear cotton overalls over normal clothing buttoned to the neck and wrist and elbow

length chemical-resistant 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. Remove from contaminated area. Apply artificial respiration if not breathing.

#### SAFETY DATA SHEET

Additional Information is listed in the Safety Data Sheet which may be found at [www.environmentalscience.bayer.com.au](http://www.environmentalscience.bayer.com.au).

#### Exclusion of Liability

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

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(For 5 and 10 L containers only)

For 24 hour specialist advice in an emergency only phone 1800 033 111

Batch Number:

DOM:

#### GHS statements for Label

##### May be harmful if swallowed. Harmful if inhaled

Avoid breathing spray. Use only outdoors or in a well-ventilated area. If INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

#### Additional GHS statements for SDS (not label)

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.