

# Starycide®

Technical Information

For all those difficult situations, just to be sure.



Starycide contains the active ingredient triflumuron, an insect growth regulator which affects chitin synthesis in insects.

This is a very selective mode of action which provides a high level of safety to higher order vertebrates (like mammals) but has very strong residual activity. It also provides slow, selective, but inevitable population decline in target pests. It is an ideal accompaniment to applications of synthetic pyrethroids which will provide a quick knockdown and kill of insect adults and nymphs.

## Target pests

- Cockroaches
- Fleas
- Silverfish

## Areas of use

Domestic, commercial, industrial and public buildings: including food processing establishments, shops, factories, ships, offices, schools, storerooms, hospitals, barracks, private houses and external areas associated with such establishments.

## Key features:

- ✓ Highly targeted insecticidal activity
- ✓ Very high level of mammalian safety
- ✓ Much reduced margin for error in measuring compared to higher concentration products (eg. a 1 mL measuring error on 480 g/L product = 0.48 g active ingredient or 1/100th of cost of bottle; a 1 mL measuring error with Starycide = 0.048 g active or 1/1,000th of cost of bottle)
- ✓ Long-lasting residual activity against juvenile insect stages
- ✓ Non-repellent
- ✓ Low odour
- ✓ Easy-to-measure
- ✓ Compatible with most Bayer pyrethroids (refer below).

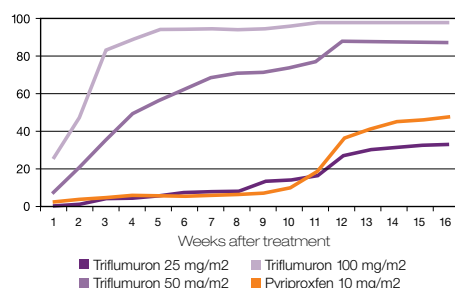
## Application rate and delivery

- ✓ 5 mL – 20 mL/L water
- ✓ 100 mL of diluted product /m<sup>2</sup>
- ✓ Equates to 24 – 96 mg active substance/m<sup>2</sup>

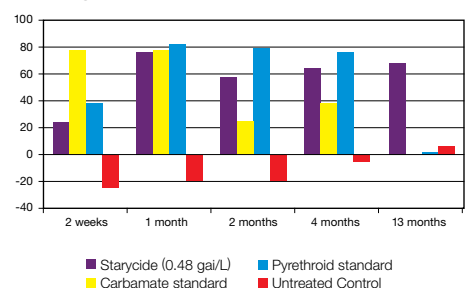
## Comments on application

Starycide is a slow acting insect growth regulator which has its greatest effect on early juvenile stages of insects. The impact of Starycide on German cockroach 2nd instar nymphal stages is clearly illustrated in the graph below, in comparison with the juvenile hormone analogue pyriproxyfen. Applied to breeding areas, Starycide will assist in preventing pest populations from building up to problem levels. Where quick results are required the use of a knockdown product as a tank mix with Starycide is recommended. Starycide is compatible with most 'adulticides' such as Cislín and Tempo. As an insect growth regulator, without the excito-repellent action of a synthetic pyrethroid, Starycide will also complement treatment with gel baits for cockroach control. If used alone on established pest populations, it will take several weeks for populations to decline to acceptable levels (3–4 weeks for fleas and 1–2 months for cockroaches). Starycide should only be used alone when the pest population has already been reduced by other measures or when the property owner is willing to accept a slow action. The long term efficacy of Starycide is illustrated in the graph below (these results are from a field trial conducted in Sydney). Starycide applied on its own kept on working even up to 1 year after application.

A comparison of the efficacy of triflumuron and pyriproxyfen against 2nd instar German cockroach nymphs when applied as a choice surface treatment (from Muesebeck 1993)



Average % reduction of German Cockroaches at various times after treatment in a field trial to compare Starycide against a pyrethroid and carbamate standard



Through market leading Research and Development; Bayer Environmental Science is committed to providing quality, highly effective and safe pest management solutions for Pest Management Professionals.

### Best practice guidelines:

- ☑ Conduct a thorough inspection prior to application of any chemical product.
- ☑ Read and follow directions on the label - there is information relating to specific pests which is intended to optimise control.
- ☑ Ensure spray tank is clean of residues of other formulations prior to use.
- ☑ Calibrate sprayer prior to application to ensure that target application rate is being achieved.
- ☑ For internal spraying a flat fan nozzle (eg. size 4001), producing a fine spray pattern is recommended.
- ☑ For external spraying use a medium to coarse flat-fan (eg. size 6502 or 6504) for evenly flat surfaces or a variable-cone/ cone-jet (eg. X3 or X8) for general situations.
- ☑ Avoid application to surfaces which are cleaned regularly or which are very dirty or greasy.
- ☑ Monitor pest activity at intervals after product is applied - if control is not achieved then other methods may need to be employed (i.e. Integrated Pest Management).
- ☑ Where a surface may be susceptible to damage or staining consider alternative control methods or it is recommended that a small inconspicuous area be treated (and allowed to dry) first.



### Product profile

**Active ingredient information:**

48 g/L triflumuron

**Insecticide group (and mode of action):**

Acylurea (chitin synthesis inhibitor)

**Formulation type:**

Suspension concentrate

**Pack size available:**

1 L chamber pack

### Product safety

**Personal protective equipment required:**

Elbow length PVC gloves

### Regulatory information

**APVMA Approval number:** 61251

**AQIS IOA Status:** Pending

**Poisons Schedule:** Schedule 5 - Caution

**Other regulatory information:**

Use of this product according to the registered label is consistent with the requirements of HACCP Procedures used within food processing establishments.

**Impact on the environment**

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 more information regarding pesticide regulatory process please visit the Australian Pesticides and Veterinary Medicines Authority website at: [www.apvma.gov.au](http://www.apvma.gov.au)



Bayer Environmental Science

**ALWAYS READ AND FOLLOW THE REGISTERED PRODUCT LABEL PRIOR TO USE.**

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For more information on STARYCIDE contact Bayer Environmental Science [www.bayeres.com.au](http://www.bayeres.com.au)

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