

ENSIGN 100

INSECT GROWTH REGULATOR

100 g/L PYRIPROXYFEN

for novel
control of
silvertail
whitefly,
greenhouse
whitefly &
scale.

The logo for SureFire, featuring the word "SureFire" in a bold, black, sans-serif font. Above the letter "u" in "Sure" is a stylized sunburst icon consisting of several curved lines radiating outwards.

SureFire

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©SureFire ENSIGN 100 contains the active ingredient Pyriproxyfen for effective control of Silvertail Whitefly & various tree scale.

Being an insect growth regulator, best results will be obtained when the product is used when the whitefly population consists primarily of susceptible juvenile offspring. It artificially increases juvenile hormone levels in insects, inhibiting egg hatch & metamorphosis. As with all IGR's, it can be slow acting, but have long-lasting effects.

ENSIGN 100 has a translaminar action through leaf surfaces, is non-toxic to bees, and has mostly short withholding periods in crops.

Mango, olive & citrus tree scale are also on the label, with a spring application being preferred. Note that no more than 2 consecutive applications per season of a Group 7C insecticide is required to maintain an effective insecticide resistance management strategy.

CROP	INSECT	RATE	CRITICAL COMMENTS
Cotton	Silverleaf whitefly (<i>Bemisia tabaci</i> Biotype B)	500 mL/ha	Ensure thorough coverage (See APPLICATION). Apply when industry recommended thresholds of silverleaf whitefly (SLW) are exceeded. If a second spray is required, a minimum re-treatment interval of two weeks must be observed. DO NOT apply more than twice in any one season. Apply as per current Cotton Industry Insecticide Resistance Management Strategy.
Rockmelon, Tomato, Capsicum (field and greenhouse)	Silverleaf whitefly (<i>Bemisia tabaci</i> Biotype B) Greenhouse whitefly (<i>Trialeurodes vaporariorum</i>)		Ensure thorough coverage (See APPLICATION). Apply in 100 – 150 L water per hectare. Use high water volume 500 – 1000 L/ha for dense crops. If applying more than 1000 L/ha use a rate of 50 mL/100 L water. Apply at first appearance of whitefly. If a second spray is required, a minimum re-treatment interval of two weeks must be observed. DO NOT apply more than twice in any one season. To avoid the resistance build-up, the product must be rotated with other approved products. Apply in accordance with the SLW Resistance Management Strategy.
Citrus	Red scale (<i>Aonidiella aurantii</i>) Black scale (<i>Saissetia oleae</i>)	50 mL/100 L water	Ensure thorough coverage (See APPLICATION). Red scale: Apply at the time of crawler release. There are usually multiple periods of crawler release from spring through to autumn. Ideally Surefire Ensign should be applied to control the first generation but if the infestation persists and there is significant crawler release later in the season then Surefire Ensign can be applied again. DO NOT apply more than twice in any one season on tree crops. Black scale: Apply at the time of crawler release which is usually December to January but also may occur in autumn. DO NOT apply more than twice in any one season.
Mango	Mango scale (<i>Aulacaspis tubercularis</i>) Pink wax scale (<i>Ceroplastes rubens</i>)		Mango scale: Apply at the time of crawler release. There are usually multiple periods of crawler release from spring through to autumn. Ideally Surefire Ensign should be applied to control the first generation but if the infestation persists and there is significant crawler release later in the season then Surefire Ensign can be applied again. DO NOT apply more than twice in any one season. Pink wax scale: Apply at the time of crawler release in early spring to early summer. There are usually two periods of crawler release in Queensland, with crawlers of the second generation emerging in mid summer to mid autumn. Ideally Surefire Ensign should be applied to control the first generation but if the infestation persists and there is significant second generation crawler release then Surefire Ensign can be applied again. DO NOT apply more than twice in any one season.
Olives	Black scale		

APVMA Approval No: 86921 / 117061

GROUP 7C INSECTICIDE



Container sizes:	Carton quantity:
1 litre	5
5 litre	4

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