



Topstar®

A systemic insecticide for the control of armoured scales, bronze beetle, codling moth, mealy bugs, Froggatt's apple leafhopper and Fuller's rose weevil in apples, thrips in avocados, armoured scales in kiwifruit, thrips in onions, potato tuber moth and tomato/potato psyllids in potatoes.

<u>Active Ingredient:</u>	480g/litre thiacloprid
<u>Chemical Group:</u>	Chloronicotinyl
<u>Formulation:</u>	Suspension concentrate
<u>Pack Sizes:</u>	1 and 5 Litre
<u>Compatibility:</u>	TopStar is compatible with most commonly used fungicides. Do not use with alkaline materials such as Bordeaux mixture and lime sulphur.

Topstar offers proven broad-spectrum control of a range of pests, with good crop safety, minimal impact on beneficials, and fast knockdown activity.



Topstar® offers highly cost-effective pest control - with many key benefits:

Proven efficacy against all stages of codling moth with ovicidal activity ✓

Also controls Armoured scales, Bronze beetle, Mealy bugs, Froggatt's apple leafhopper and Fuller's rose weevil in apples ✓

Low use rates ✓

Systemic activity against onion thrips and tomato/potato psyllids in potatoes ✓

General Information: **TopStar** is a systemic insecticide for the control of armoured scales, bronze beetle, codling moth, mealy bugs, Froggatt's apple leafhopper and Fuller's rose weevil in apples, thrips in avocados, armoured scales in kiwifruit, thrips in onions and potato tuber moth and tomato/potato psyllids in potatoes.

Resistance Management: Pests resistant to **TopStar** may develop if overused. To minimise the development of resistance, use strictly in accordance with label recommendations and at the full rate prescribed. Alternate with products from alternative chemical groups. Apply a maximum of two applications per season according to the onion thrips management strategy issued by the NZ Onion Exporters Association. Follow the other recommendations of the strategy.

Compatibility: **TopStar** is compatible with most commonly used fungicides. Do not use with alkaline materials such as Bordeaux mixture and lime sulphur.

Withholding Periods: Apples – 42 days; Kiwifruit – Apply only pre-flowering; Avocados – 14 days; Onions – 42 days; Potatoes – 14 days.

Directions for Use: Pour **TopStar** directly into the spray tank with agitators running.

CROP	PEST	RATE	REMARKS
Apples	Armoured scales Bronze beetle Codling moth Mealy bugs	30ml/100 litres of water, with a maximum dose of 600ml/ha.	Apply at petal fall and re-apply when IFP thresholds are exceeded.
	Froggatt's apple leafhopper	30ml/100 litres of water, with a maximum dose of 600ml/ha.	Apply on first appearance of insects. A second application may be required later in the season. TopStar is only effective against immature stages. Use alternative products for control of adults.
	Fuller's rose weevil	30ml/100 litres of water, with a maximum dose of 600ml/ha.	Apply in November or together with a penetrant in December.
Avocados	Thrips	15ml/100 litres of water, with a dose of 300ml/ha	Apply when AvoGreen monitoring indicates the thrips threshold has been exceeded, or at the first sign of thrips damage in late summer or autumn. A second application may be necessary 3 weeks later.
Kiwifruit	Armoured scales	20ml/100 litres of water	Make two applications, the first at greentip and the second pre-flowering.
Onions	Thrips	160ml/ha + 400ml/ha Deltaphar 25EC (deltamethrin)	Apply up to two consecutive applications once thresholds have been reached. Apply in 500-600 litres of water/ha and ensure good spray coverage. The addition of a wetting agent is recommended.
Potatoes	Aphids Potato tuber moth	160ml/ha + 400ml/ha Deltaphar 25EC (deltamethrin)	Apply at first appearance and repeat at 14-21 days.
	Tomato/potato psyllid	200ml/ha + 500ml/ha Deltaphar 25EC (deltamethrin)	Apply up to two applications at 7 day intervals as part of a programme in sufficient water to ensure good coverage of all foliage.

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