



Talstar® 100 EC

INSECTICIDE / MITICIDE

## WARNING

KEEP OUT OF REACH OF CHILDREN  
ECOTOXIC

### ACTIVE INGREDIENT:

Contains 100 g/L bifenthrin in the form of an emulsifiable concentrate.

Also contains 760 g/litre hydrocarbon liquids.

### CONTENTS:

1 L, 5 L

GROUP **3** INSECTICIDE

**EC** FORMULATION TYPE  
Emulsifiable  
Concentrate

For the control of a wide range of insects in Kiwifruit, Vegetable brassicas, Tomatoes, Kabocha and Pumpkins.

### FIRST AID

If swallowed **DO NOT** induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. **DO NOT** SCRUB THE SKIN. If concentrate is splashed in the eyes, flush with running water for at least 15 minutes. Take to hospital without delay.

### SPILLAGE

Wear suitable protective clothing including face shield, impervious gloves, and boots. Prevent the product or spilled material from entering water bodies. Absorb liquid spills with inert material such as earth or sand and place in waste containers. Wash area with water and absorb with further inert material. Dispose of safely.

Registered pursuant to the ACVM Act 1997, No. P4140.

See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions

Approved pursuant to the HSNO Act 1996, HSR000277

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.





**HSNO Class:** 3.1D, 6.1D, 6.3A, 6.4A, 6.9A, 9.1A, 9.2B, 9.3B, 9.4A

**WARNING:**

COMBUSTABLE LIQUID. Keep away from sources of ignition.

**TOXICITY:**

WARNING: Harmful if swallowed. May cause skin and eye irritation. Avoid eye and skin contact.

TOXIC – may cause damage to the nervous system from repeated oral exposure at high doses.

**ECOTOXIC:**

Very toxic to aquatic organisms. **DO NOT** apply directly into or onto water. **DO NOT** contaminate sewers, drains, dams, creeks or any other waterways with product or empty containers. Toxic to the soil environment. Toxic to terrestrial vertebrates. Take all reasonable steps to ensure that Talstar® 100 EC does not cause any significant adverse effects to the environment beyond the application area.

**Bee Safety: TOXIC TO BEES.**

**DO NOT** apply substance to plants if—

- (i) Bees are foraging; or
- (ii) The plants are in flower or part flower and are likely to be visited by non-target invertebrate pollinators (including bees) except in the evening when bees have stopped working.

**HANDLING PRECAUTIONS: DO NOT** handle until all safety precautions have been read and understood. The person mixing or applying Talstar® 100 EC must be a “Qualified Contractor” or a “Qualified Person”. The spray mixture may also be prepared by a “Qualified Loader”.

**PERSONAL PROTECTION:** When mixing or applying, avoid contact with skin and eyes. Wear protective clothing, gloves and goggles. **DO NOT** eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.

**STORAGE:** Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals.

Stores containing 100 L are subject to signage, and more than 100 L require emergency response plans. When stored appropriately this product should show no significant degradation for 2 years. Contact your supplier for further information about the use of any product that is older than this.

**DISPOSAL:** Container disposal: Ensure container is empty. Triple rinse, and add rinsate to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, burn if circumstances, especially wind direction permit, otherwise bury in an approved landfill. **DO NOT** reuse container. Dispose of this product only by using according to this label. Always follow local Authority requirements.

## PRODUCT INFORMATION

Talstar® 100 EC is a synthetic pyrethroid insecticide/miticide with a broad spectrum of activity controlling a wide range of chewing and sucking insects on kiwifruit, tomatoes, Kabocha, pumpkins and vegetable brassicas. Talstar® 100 EC kills pests through both contact and ingestion. Talstar® 100 EC is not systemic so thorough coverage is essential.

**It is an offence to use this product on animals.**

## DIRECTIONS FOR USE

### Mixing:

Pour the required quantity into the partly filled spray tank with agitation running, and complete filling of the tank. Add a non-ionic wetting agent to improve wetting of the leaf surface if necessary.

### Application:

Apply in sufficient water to obtain complete coverage. For horticultural crops, the rates are for high volume spraying to run-off. For concentrate spraying adjust dilution rate accordingly. Use the high rate under high insect pressure and when spraying on a 10 - 14 day schedule. Alternatively, use crop monitoring to determine when to spray for appropriate crops.

## RECOMMENDATIONS

CROP	PEST	RATE	REMARKS
Field Tomatoes	Tomato fruitworm Aphids	250 - 500 ml/ha	Apply one application after 7 <sup>th</sup> January when second generation of tomato fruitworms are present. Use non-synthetic pyrethroid products prior to January 7 <sup>th</sup> to control first generation tomato fruitworms. See resistance management statement below.
Kabocha, Pumpkins	Aphids	200 - 400 ml/ha	Make a single application pre-blossom. See resistance management statement below.
Vegetable brassicas	Diamond back moth and white butterfly caterpillars	250 - 500 ml/ha	Apply from emergence in alternation with a non-synthetic pyrethroid product. Add a non-ionic surfactant. See resistance management statement below.
Kiwifruit	Armoured scales - <b>Dormant</b>	<b>For concentrate sprays:</b> use 600 ml/ha  <b>For dilute sprays:</b> use 40 ml/100 litres water (min. 600 ml/ha)	<b>Timing:</b> Apply at late dormant stage.  For concentrate spraying apply in 600 to 1000 litres of water and add Du-Wett at 500 ml/ha.  For dilute spraying apply in 1000 to 1500 litres of water.
	Armoured scales Leafrollers <b>Just before flowering</b>	<b>For concentrate sprays:</b> use 500 ml/ha  <b>For dilute sprays:</b> use 20 ml/100 litres (min. of 500 ml/ha)	<b>Timing:</b> Apply just before male vines begin to flower.  For concentrate spraying apply 600 to 1000 litres of water/ha and add Du-Wett at 350 ml/ha  For dilute sprays apply 1500 to 2500 litres of water/ha.  <b>NOTE:</b> Best armoured scale control with Talstar® 100 EC requires sprays at both timings.
Kiwifruit Airblast sprayer	Cicada &/or Passion-vine hopper eggs	1.0 L Talstar® 100 EC + 1.0 L Engulf™ in 1000 L of water / ha  OR  1.0 L Talstar® 100 EC + 1.2 L Engulf™ in 600 - 800 L of water / ha	<b>Cicada eggs only, or eggs of both cicadas and PVH:</b> Apply after harvest as soon as good coverage of canes is possible but before mid-July and before winter pruning. Canes are the key target.  <b>PVH eggs only:</b> Spray can be applied throughout the dormant period, but to control PVH eggs target all soft wood in the orchard, including the wood of structures. Talstar® 100 EC plus Engulf may be applied up to 3 days before or after a spray of copper or of a bud breaking product.

CROP	PEST	RATE	REMARKS
Orchard surrounds	Cicada &/or Passion Vine Hopper Eggs	100 ml Talstar® 100 EC plus 100 ml Engulf™ / 100 litres of spray mix	When the surrounds contain significant sources of cicadas or PVH, such areas may be sprayed using suitable directed equipment to get good coverage, e.g. hand guns. Make application at the same time that the Orchard is being treated.  Follow all recommendations on the Engulf™ label.  Mahoe, Blackberry, Wildberry and Bracken Fern are favoured host plants for Passion Vine Hopper.

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Limits of Agricultural Compounds.**

## WITHHOLDING PERIODS

**Kiwifruit - DO NOT spray after first female flowers open. DO NOT allow animals to graze in treated areas.**

**Field tomatoes - 3 days**

**Kabocha and pumpkins - DO NOT apply after flowering**

**Vegetable brassicas - 3 days**

## RESISTANCE MANAGEMENT

Resistance to this pesticide may develop from excess use. To minimise this risk use strictly in accordance with label instructions.

**Diamond back moth caterpillars** - avoid using this insecticide exclusively all season and avoid unnecessary spraying. Maintain good cultural practices.

**Tomato fruit worm - DO NOT** apply before the 7th of January and avoid unnecessary spraying. Maintain good cultural practices.

**Aphids** - If necessary, to spray twice for aphids, use an insecticide with a different mode of action. **DO NOT** use a synthetic pyrethroid. If Tomato fruit worm is present in a squash crop prior to 7th January, **DO NOT** spray Talstar® 100 EC in line with the tomato fruit worm strategy above.

For additional information on insecticide resistance, modes of action and monitoring visit the Insecticide Resistance Action Committee (IRAC) on the web at [www.irac-online.org](http://www.irac-online.org)

## COMPATIBILITY

Compatible with most commonly used fungicides and insecticides. **DO NOT** mix with copper sprays, lime sulphur or hydrogen cyanamide.

## SAFETY DATA SHEET

Additional information is listed in the SDS available from FMC New Zealand Limited or [www.fmccrop.nz](http://www.fmccrop.nz)

## RECORD KEEPING

Records of use, as described in NZS 8409 Management of Agrichemicals.

## NOTICE TO BUYER

FMC warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use of application, all of which are beyond the control of FMC. To the extent permitted at law FMC shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer.

TO THE EXTENT PERMITTED AT LAW, FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

**EMERGENCY PHONE: 0800 CHEMCALL 0800 243 6225**

FMC and Talstar® are trademarks of FMC Corporation or an affiliate.

© 2021 FMC Corporation. All rights reserved.

\*Non FMC Trademark

### Registered and distributed by:

FMC New Zealand Limited  
6 Clayton Street  
Newmarket  
Auckland 1023  
New Zealand  
Freephone: 0800 65 80 80  
[www.fmccrop.nz](http://www.fmccrop.nz)

New Zealand Emergency Telephone  
Transport Emergency: 0800 387 668  
24 hr Emergency Medical Information: 0800 111 174

