

DANGER
Keep out of reach of children
Combustible, Ecotoxic

Affirm 18

INSECTICIDE/MITICIDE

ACTIVE INGREDIENT:

Contains 18 g/L abamectin in the form of an emulsifiable concentrate. Also contains 250 g/L 1-Methyl-2-pyrrolidinone.

GROUP 6 INSECTICIDE

For the control of mites on avocados, pipfruit, indoor tomatoes, strawberries and ornamentals and for the control of leafrollers on kiwifruit and tomato-potato psyllid on potatoes.

Registered pursuant to the ACVM Act 1997, P10325
 See www.foodsafety.govt.nz for registration conditions.
 Approved under the HSNO Act 1996, HSR101034
 See www.epa.govt.nz for Controls.

IN A TRANSPORT EMERGENCY: CALL 111, POLICE OR FIRE BRIGADE



READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING.

GENERAL INFORMATION

Affirm 18 is not systemic, ensure thorough spray coverage for optimal results. After application, **Affirm 18** quickly moves into young leaves from where it is taken up by the feeding leafrollers, mites and tomato-potato psyllid. **Affirm 18 EC** takes approximately 7 days to achieve maximum control. Note: DO NOT apply if rainfall is expected before spray droplets have dried, as reduced efficacy may result. DO NOT overhead irrigate within 24 hours after application.

Crop monitoring: For effective mite control, crops should be monitored every 3 to 5 days during the season. For effective leafroller and tomato-potato psyllid control, monitor the crops on a regular basis during the season.

INTEGRATED PEST MANAGEMENT

Affirm 18 is compatible with IPM programmes using the predator mites *Typhlodromus pyri*, *Phytoseiulus persimilis* and *T. occidentalis* (ABAMET may temporarily suppress numbers).

BEE TOXICITY

Affirm 18 is toxic to bees. Do not apply this product to any plant or tree likely to be visited by bees

- at the time of application; or
- immediately after application before the spray has dried; or
- in areas where bees are foraging; or
- if the plant or tree is likely to flower within three days or applying the substance.

ENVIRONMENTAL INFORMATION

DO NOT apply **Affirm 18** when weather conditions favour drift from the target area. Toxic to fish and other water-borne organisms.

When **Affirm 18** comes into contact with soil it is readily and tightly bound to the soil and is inactivated.

Affirm 18 that is not absorbed into plants is quickly degraded.

DO NOT apply **Affirm 18** into or onto water.

Buffer zones are required to protect downwind waterbodies when applying **Affirm 18** as follows:.

Method of application	Application rates per hectare	Required buffer zone to downwind water body (metres)
Airblast	1 – 1.5 litres	110
Airblast	625 ml – 1 litre	70
Airblast	500 ml – 625 ml	40
Airblast	≤ 500 ml	30
High boom (0.5-1.3 metres)	600 ml – 1 litre	60
High boom (0.5-1.3 metres)	≤ 600 ml	20

APPLICATION

Affirm 18 may only be applied using ground spraying equipment. **Affirm 18** must be applied with a nozzle set to provide a coarse quality spray according to the American Society of Agricultural & Biological Engineers (ASABE) droplet size classification scheme (American National Standard ANSI/ASAE S572.1, March 2009).

Any person who mixes and/or loads **Affirm 18** must wear gloves that are not permeable to n- Methylpyrrolidione [NMP] (made of layered polyethylene/ethane-vinyl alcohol or butyl).

MIXING

Add the required amount of **Affirm 18** to a partly filled spray tank, then add the remainder of the water. If oil is recommended, add this after the **Affirm 18** is well mixed. A wetting agent is NOT required in strawberries, tomatoes or ornamentals.

COMPATIBILITY

Affirm 18 is compatible with most of the commonly used insecticides and fungicides. Mixtures with more than one chemical are NOT recommended. As formulations of other manufacturer's products are beyond the control of the registrant and distributor, all mixtures should be tested prior to use.

DIRECTIONS FOR USE

It is an offence to use this product on animals.

Dosage rates given are for high volume spraying to run off. For concentrate spraying adjust dilution rates accordingly.

The maximum dosage rate per hectare for **Affirm 18** is 1.5 litres.

Affirm 18 must not be applied to the same area more than four times in any 365 day period.

Affirm 18 must be applied at a spray interval of at least 7 days.

A re-entry period (REI) of 24 hours is applicable after **Affirm 18** application. This REI does not apply if gloves made of layered polyethylene/ethane-vinyl alcohol or butyl are worn.

Crop	Pest	Rates	Remarks
Apples and Pears (pipfruit)	European Red Mite, Two-spotted Mite	37.5 mL plus 500 mL all-purpose spraying oil/100 litres of water. Alternatively, mix with a non-ionic surfactant at label rates. Apply a minimum of 2000 litres of spray mixture/sprayed hectare. Note - DO NOT exceed 1.5 litres Affirm 18 or 10 litres of spraying oil per hectare.	For optimum residual control, apply Affirm 18 before there is a build up of Mite populations in the period from petal fall to mid-December. Make only one application per season. Crop Safety: All purpose spraying oils may cause damage to sensitive varieties such as Cox's Orange, Gala and Anjou pears. DO NOT use all-purpose spraying oil within 21 days before or after spraying CAPTAN. Use a non-ionic surfactant when a captan-based spraying programme is in use in the orchard, as CAPTAN is not compatible with oil-based applications. A very small amount of transient apple fruit blemish has been associated with low water volume applications. Please refer to the label precautions and directions of other products before mixing with Affirm 18 . Caution- DO NOT apply Affirm 18 : <ul style="list-style-type: none"> When unusually hot conditions are present or expected within 24 hours after application. Under poor or slow drying conditions. With equipment that may leave large droplets on fruit after application.
Avocados	Six-spotted Mite	37.5 mL plus 500 mL all-purpose spraying oil/100 litres of water. Alternatively, mix with a non-ionic surfactant at label rates.	For optimum residual control, apply in early spring before there is a build up of Mite populations. Begin spray applications at the first signs of mites before severe infestation and defoliation occurs. Follow up applications should be made at 14 to 28 day intervals. As a resistance prevention measure apply a maximum of 3 applications per season.
Kiwifruit	Leafrollers	25 ml/100 litres of water plus a non-ionic surfactant at label rates. Spray to the point of run off (approx. 2000 litres /ha) ensuring not less than 500 mL Affirm 18 / crop hectare.	Apply immediately after flowering, followed by 2 further sprays at 14 day intervals. Additional applications should be made at 21 day intervals or if monitoring indicates a need. The final spray must NOT be made within 120 days of harvest. DO NOT mix any foliar fertilisers or nutrient products with Affirm 18 on kiwifruit.
Ornamentals (Roses, Chrysanthemums, Carnations, indoor foliage plants)	Two-spotted Mite	25 to 50 mL/100 litres of water. Apply a minimum of 750 mL Affirm 18 /ha.	Ensure thorough spray coverage penetrating into the plant foliage, particularly the underside of leaves. Use the higher rate when mite pressure is high. Commence application at the first signs of mites. Make two applications 7 to 10 day intervals. Apply

			a maximum of 3 sprays per season. Crop Safety: DO NOT use Affirm 18 on ferns or Shasta daisies. If unsure of crop safety, apply to a few plants first before spraying the remaining plants.
Potatoes	Tomato-potato psyllid	600mL/ha plus a suitable adjuvant at label rates	Apply at the first appearance of the pest. Ensure thorough crop coverage and penetration of the spray into the crop. Inadequate coverage can result in reduced pest control. Make a maximum of 4 applications per season at 7 day intervals as part of a pest control programme.
Strawberries	Two-spotted Mite	100 mL/100 litres of water. Apply a minimum of 600 mL Affirm 18 /ha.	Apply at the first appearance of mites when numbers exceed 3 to 5 mites/leaf. Make two applications 7 - 10 day intervals. Apply a maximum of 3 applications per season. Ensure thorough plant spray coverage.
Tomatoes (indoor)	Two-spotted mite, Tomato russet mite	60 to 90 mL/100 litres of water. Apply a minimum of 300 to 450 mL Affirm 18 /ha and a minimum of 500 litres of water/ha.	Apply on the first appearance of mites. Use the higher rate where mite pressure is high and where russet mite is obvious or is the main mite present. Apply a maximum of 3 applications per season.

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

WITHHOLDING PERIODS

Avocados:	14 days
Kiwifruit :	120 days
Pipfruit:	14 days
Potatoes:	14 days
Strawberries:	3 days
Tomatoes:	3 days

RESISTANCE MANAGEMENT

GROUP	6	INSECTICIDE
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Affirm 18 contains the Group 6 Insecticide/miticide Abamectin (Avermectin). Resistance to this insecticide/miticide could develop from excessive use. To minimize this risk use strictly in accordance with the label instructions and resistance management strategies that exist for any insect or mite species listed on this label. Do not use another product containing an insecticide/miticide in the same group in conjunction with **Affirm 18 EC**. For further information see www.resistance.nzpps.org.

CONDITIONS OF SALE

READ THESE CONDITIONS OF SUPPLY BEFORE BUYING AND USING.

IF THESE CONDITIONS ARE UNACCEPTABLE, RETURN AT ONCE UNOPENED.

This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer or registrants control. The manufacturer and registrant decline all liability for damage resulting from improper storage or use of the product.



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