

WARNING
KEEP OUT OF REACH OF CHILDREN



ADAMA



Invert EW
Insecticide/Miticide

GROUP 6 INSECTICIDE

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

READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING

Active Ingredient:

Contains 18 g/L ABAMECTIN in the form of an oil in water emulsion

UN No:	3082
DG Class:	9
Packing Group:	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Abamectin)
Marine Pollutant:	Yes
Batch number:	NET CONTENTS: 1 L, 2 L, 5 L, 10 L
Date of Manufacture:	
Expiry date:	
Barcode to be inserted	

REFER TO BOOKLET FOR FULL LABEL INSTRUCTIONS.**WARNING**

Harmful if swallowed. Causes skin irritation. Causes eye irritation. Suspected of damaging ~~fertility~~ or the unborn child. May cause harm to breast-fed children. May cause damage to the nervous system through prolonged or repeated oral exposure. Very toxic to aquatic life with long lasting effects. Harmful to the soil environment, Harmful to terrestrial vertebrates, Very toxic to the terrestrial invertebrates.

HANDLING PRECAUTIONS

Keep out of reach of children. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe spray mist or vapours. Avoid contact during pregnancy/while nursing. Do not eat, drink or smoke while using this product. Wear protective clothing as in the personal protection section of this label. Wash exposed skin thoroughly after handling. Avoid unintended release into the environment. Collect spillages.

PROTECTION OF BEES

This product is very toxic to bees. Do not apply this product to any plant or tree likely to be visited by bees (a) at the time of application; or (b) immediately after application until spray has dried; or (c) in areas where bees are foraging.

PCBU RESPONSIBILITIES

A PCBU with management or control of work using this substance must ensure that every worker who uses, handles, manufactures, or stores this hazardous substance (including hazardous waste) is, before the worker is allowed to carry out or supervise work involving those substances, provided with adequate information, training and instruction. This includes the use of personal protective equipment to be used to minimise risks to the health and safety of workers when carrying out work using this substance.

QUALIFICATIONS REQUIRED FOR APPLICATION OF ENVIRONMENTALLY HAZARDOUS SUBSTANCES

Anyone who mixes, loads, or applies this product, either by air or ground based methods, is required to be suitably qualified, or must receive guidance and, if required, assistance from a suitably qualified person. Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) Notice 2017 for a list of suitable qualifications.

RECORD KEEPING

Where 3 kg or more of the substance is applied within 24 hours, in a place where the substance is likely to enter air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. Refer to Part 4 Clause 48 of the Hazardous Substances (Hazardous Property Controls) Notice 2017 for details of information that must be recorded.

EQUIPMENT

A PCBU with management or control of work using this substance must ensure that equipment used to handle this substance retains the substance, without leakage, at all of the temperatures and pressures at which the equipment is to be used; and dispenses or applies the substance, without leakage, at a rate and in a manner that the equipment is designed for. The PCBU must ensure that the equipment is accompanied by documentation that is readily available and readily understandable about the use and maintenance of the equipment.

STORAGE

Store locked up in the original, tightly closed container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs. Signage, secondary containment and an emergency response plan are required where 100 L or more of this product is stored. Refer to the product SDS for further information.

SHELF LIFE

When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

PERSONAL PROTECTION

When mixing or applying wear appropriate protective clothing including cotton overalls buttoned to the neck and wrist, eye protection, impervious, elbow-length gloves, respiratory protection and boots. Wash hands, arms and face with soap and water before meals and after work. Wash protective clothing after use.

SPILLAGE

Exclude all bystanders from the vicinity of the spill and prevent material from entering waterways. Wear appropriate protective clothing as in the personal protection section of this label to clean up spills. Absorb

spills with an inert material (such as vermiculite, earth, sand or synthetic absorbent substance) and place in waste containers. Wash area with water and alkaline detergent. Then absorb any remaining liquid with further inert material. Dispose of the waste safely in an approved landfill.

DISPOSAL

Container Disposal - Triple rinse empty container and add rinsate to spray tank. Submit clean empty container to an Agrecovery® depot for recycling. Alternatively, puncture and bury in a suitable landfill. Avoid contamination of any water supply with product or empty container.

Product Disposal - Dispose of this product only by using according to the label, or through the Agrecovery® Chemical Recovery service or other approved facility.

Do not burn product or container.

SAFETY DATA SHEET

A safety data sheet for this product is available at www.adama.com.

FIRST AID

If medical advice is needed, have product container or label at hand.

For advice, or if you feel unwell or are exposed or concerned, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.

IF SWALLOWED: Rinse mouth. Call a POISON CENTRE or doctor if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTRE or doctor if you feel unwell. If skin irritation occurs, get medical attention. Take off contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

CONDITIONS OF SALE

Adama New Zealand Limited will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than the responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by the Statutes applicable to the sale and supply of these goods. To the extent allowed by such Statutes the liability of Adama New Zealand Limited is limited to the replacement of the goods or (at the option of Adama New Zealand Limited) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Adama New Zealand Limited within thirty days of delivery.



ADAMA

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ADAMA New Zealand Limited
Level 1, 93 Bolt Road
Tahunanui, Nelson 7011
PO Box 1799, Nelson 7040
New Zealand
Telephone 03 543 8275
www.adama.com

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Invert is a registered trademark of an ADAMA Group Company.





EMERGENCY RESPONSE
(All hours)
Ring from anywhere in New Zealand
0800 734 607

In a Transport
Emergency
Phone 111
Police or Fire



PRODUCT INFORMATION

INVERT EW INSECTICIDE/MITICIDE is not systemic. Therefore thorough coverage is essential. After application, INVERT EW INSECTICIDE/MITICIDE quickly moves into young leaves from where it is taken up by the feeding leafrollers, mites and tomato-potato psyllid. INVERT EW INSECTICIDE/MITICIDE takes about 7 days to achieve maximum control.

When INVERT EW INSECTICIDE/MITICIDE comes into contact with soil it readily and tightly binds to the soil and becomes inactive. INVERT EW INSECTICIDE/MITICIDE that is not absorbed into plants is quickly degraded.

Integrated Pest Management

INVERT EW INSECTICIDE/MITICIDE is compatible with IPM programmes using the predator mites *Typhlodromus pyri*, *Phytoseiulus persimilis* and *T. occidentalis* (although INVERT EW INSECTICIDE/MITICIDE may suppress numbers temporarily).

For effective mite control, regularly monitor crops every 3 to 5 days during the season. For effective leafroller and tomato-potato psyllid control, regularly monitor crops during the season in accordance with industry programmes.

DIRECTIONS FOR USE

TAKE ALL REASONABLE STEPS TO ENSURE THAT THE SUBSTANCE DOES NOT CAUSE ANY SIGNIFICANT ADVERSE EFFECTS TO THE ENVIRONMENT BEYOND THE APPLICATION AREA.

Do not apply this substance onto or into water.

It is an offence to use this product on animals.

The rates suggested are for high volume spraying to run off. For concentrate spraying adjust dilution rate accordingly.

CROP	PEST	RATES	CRITICAL COMMENTS
Apples, pears	European red mite, two-spotted mite	37.5 mL+ 500 mL all-purpose spraying oil/100 L of water Alternatively, mix with a non-ionic surfactant at label rates. Apply a minimum of 2000 L of spray mixture/sprayed ha. Note: DO NOT exceed 1.5 L INVERT EW or 10 L of spraying oil/ha.	Apply a minimum of 2000 L of spray mixture/sprayed ha. For optimum residual control, apply before there is a build-up of mite populations in the period from petal fall to mid-December. Make only 1 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 program 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 INVERT EW INSECTICIDE/MITICIDE. Caution: DO NOT apply INVERT EW INSECTICIDE/MITICIDE <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



CROP	PEST	RATES	CRITICAL COMMENTS
			droplets on fruit after application.
Avocados	Six-spotted mite	37.5 mL + 500 mL all-purpose spraying oil/100 L 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. The first application should be made when mites are first found and before severe infestation and defoliation has occurred. Subsequent applications should be made at a 14 to 28 day spray interval. To prevent resistance developing apply a maximum of 3 applications per season.
Kiwifruit	Leafrollers	25 mL/100 L of water + a non-ionic surfactant at label rates. Spray to the point of fun off (approx. 2000 L /ha) ensuring not less than 500 mL INVERT EW /crop ha.	Apply immediately after flowering, followed by 2 further sprays at 14 day intervals. Further applications should be made at 3 week intervals or if monitoring shows a need. The final spray must NOT be made within 120 days of harvest. DO NOT mix any foliar fertilisers or nutrient products with INVERT EW INSECTICIDE/MITICIDE on kiwifruit.
Ornamentals (roses, chrysanthemums, carnations, indoor foliage plants)	Two spotted mite	25-50 mL/100 L of water. Apply a minimum of 750 mL INVERT EW/ha.	Ensure thorough coverage and penetration into the plants, particularly the undersides. Use the higher rate under high mite pressure. Apply on the first appearance of the pest. Make 2 applications 7-10 days apart, with a maximum of 3 applications per season. Crop safety: DO NOT use on ferns or Shasta daisies. If unsure of crop safety, apply to a few plants first before spraying the rest of the crop.
Potatoes	Tomato-potato psyllid	600 mL/ha + 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 program.
Strawberries	Two-spotted mite	100 mL/100 L of water. Apply a minimum of 600 mL INVERT EW INSECTICIDE/MITICIDE/ ha.	Apply at the first appearance of mites when numbers exceed 3 to 5 mites/leaf. Make 2 applications 7 to 10 days apart, with a maximum of 3 applications per season. Ensure thorough coverage of the plants.
Tomatoes (indoor)	Two-spotted mite, tomato russet mite	60-90 mL/100 L of water. Apply a minimum of 300-450 mL INVERT EW INSECTICIDE/MITICIDE/ha and a minimum of 500 L of water/ha	Apply on the first appearance of Mites. Use the higher rate under high Mite pressure and where Russet Mite is obvious or 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

MIXING

Add the required amount of INVERT EW INSECTICIDE/MITICIDE to the partly filled spray tank. Then add the remainder of the water. If oil is recommended, add this after the INVERT EW INSECTICIDE/MITICIDE is well mixed. Wetting agent is NOT required in strawberries, tomatoes or ornamentals.

COMPATIBILITY

INVERT EW INSECTICIDE/MITICIDE 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 ADAMA, all mixtures should be tested prior to use.

EQUIPMENT

Apply using well maintained and accurately calibrated spray equipment.

RAINFALL

DO NOT apply if rainfall is expected before spray would have dried, as reduced efficacy may result. DO NOT overhead irrigate within 24 hours after application.

RESISTANCE MANAGEMENT

INVERT EW INSECTICIDE/MITICIDE contains the GROUP 6 Avermectin insecticide, abamectin. Do not use another product containing a fungicide in the same group in conjunction with INVERT EW INSECTICIDE/MITICIDE. Intensive use of INVERT EW INSECTICIDE/MITICIDE could result in the development of resistant strains of mites and insects. To minimise this risk, use INVERT EW INSECTICIDE/MITICIDE strictly in accordance with label directions. When used for the control of mites it is recommended to alternate the use of INVERT EW INSECTICIDE/MITICIDE with products from other chemical groups. Refer to <https://resistance.nzpps.org/index.php> for current resistance management strategies for the pests listed.

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