



**POISON**  
**KEEP OUT OF REACH OF CHILDREN**  
**READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

FARMALINX

# Zilch Miticide

**ACTIVE CONSTITUENT: 100 g/L HEXYTHIAZOX**  
**SOLVENT: 753 g/L XYLENE**

**GROUP 10A INSECTICIDE**

*For the control of twospotted mite (*Tetranychus urticae*) and European red mite (*Panonychus ulmi*) on apples, pears, stone fruit, and ornamentals and for control of twospotted mite on strawberries.*

**IMPORTANT: READ THIS LEAFLET BEFORE OPENING OR USING.**

***farmalinx*** *Partners in Agriculture*

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**1 Litre**

**DIRECTIONS FOR USE****RESTRAINTS:**

DO NOT apply by AIRCRAFT.

DO NOT apply to ANY CROP more than once per season.

DO NOT apply to ANY CROP treated earlier in the same season with CLOFENTEZINE.

DO NOT apply to DECIDUOUS FRUIT before October 20 or after January in any season.

DO NOT use in ORCHARDS where products likely to cause MITE FLARING have been used or are planned to be used.

CROP	PEST	WHP	RATE per 100 L	CRITICAL COMMENTS
In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Mixing/ Application section. For details of RECOMMENDED ADULTICIDES and RESISTANCE WARNING AND MANAGEMENT refer to General Instructions.			For all uses in this table: Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop, whether applying this product by dilute or concentrate spraying methods.	
			IRRESPECTIVE OF WHETHER	BIOLOGICAL CONTROL IS BEING PRACTICED.
PROGRAMME #1 Pears	Twospotted mite only	3 days	25 mL plus a recommended Adulticide	Apply when mites are evident but WELL BEFORE the infestation reaches a level where ECONOMIC DAMAGE IS IMMINENT.
Apples and stone fruit			WHERE BIOLOGICAL CONTROL IS NOT BEING PRACTICED	Use PROGRAMME #1
PROGRAMME #2 Apples and stone fruit	Twospotted mite only		WHERE BIOLOGICAL CONTROL OF Twospotted mite IS BEING PRACTICED. 25 mL plus a non-ionic surfactant at the label rate.	Apply when mites are evident but WELL BEFORE the infestation reaches a level where ECONOMIC DAMAGE IS IMMINENT, taking into account the effectiveness of the biological control agent determined from frequent field checks, conducted by appropriately trained personnel.
PROGRAMME #3 Apples, pears and stone fruit	European red mite only		IRRESPECTIVE OF WHETHER 25 mL plus a non-ionic surfactant at the label rate.	BIOLOGICAL CONTROL IS BEING PRACTICED. FOLLOWING treatment with OIL at recommended rates PRIOR to BUDBURST, apply to infestations of predominately EGGS and IMMATURE MOTILES in NOVEMBER.
Pears	Twospotted mite AND European red mite		IRRESPECTIVE OF WHETHER	BIOLOGICAL CONTROL IS BEING PRACTICED. Where European red mite is dominant use PROGRAMME #3. Where twospotted mite is dominant use PROGRAMME #1.
Apples and stone fruit	Twospotted mite AND European red mite		WHERE BIOLOGICAL CONTROL IS NOT BEING PRACTICED	Where twospotted mite is dominant use PROGRAMME #1. Where European red mite is dominant use PROGRAMME #3.
			WHERE BIOLOGICAL CONTROL OF twospotted mite IS BEING PRACTICED.	Use PROGRAMME #3.
			WHERE BIOLOGICAL CONTROL OF European red mite IS BEING PRACTICED.	Use PROGRAMME #1.
			WHERE BIOLOGICAL CONTROL OF twospotted mite AND European red mite IS BEING PRACTICED.	Where twospotted mite is dominant use PROGRAMME #2. Where European red mite is dominant use PROGRAMME #3.

CROP	PEST	WHP	RATE per 100 L	CRITICAL COMMENTS
In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Mixing/ Application section. For details of RECOMMENDED ADULTICIDES and RESISTANCE WARNING AND MANAGEMENT refer to General Instructions.			For all uses in this table: Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop, whether applying this product by dilute or concentrate spraying methods.	
Strawberries	Twospotted mite	1 day	WHERE BIOLOGICAL CONTROL IS NOT BEING PRACTICED. 25 mL plus 40 mL TORQUE® Miticide.	Apply when mites are evident but WELL BEFORE the infestation reaches a level where ECONOMIC DAMAGE IS IMMINENT. Do NOT apply as a concentrate spray.
			WHERE BIOLOGICAL CONTROL OF twospotted mite IS BEING PRACTICED. 25 mL plus a non-ionic surfactant at the label rate	Apply when mites are evident but WELL BEFORE the infestation reaches a level where ECONOMIC DAMAGE IS IMMINENT. Do NOT apply as a concentrate spray.
Ornamentals	Twospotted mite AND/ OR European red mite	-		Due to the diversity of ornamentals and growing conditions, plant reactions to Farmalinx ZILCH Miticide must be checked before large scale applications are made. Farmalinx Pty Ltd will not be held responsible for any adverse plant reactions caused by Farmalinx ZILCH Miticide.
			WHERE BIOLOGICAL CONTROL IS NOT BEING PRACTICED. 25 mL plus a recommended Adulticide.	Apply when mites are evident but WELL BEFORE the infestation reaches a level where ECONOMIC DAMAGE IS IMMINENT. Do NOT apply as a concentrate spray.
			WHERE BIOLOGICAL CONTROL OF Either or Both Pests IS BEING PRACTICED. 25 mL plus a non-ionic surfactant at the label rate.	Apply when mites are evident but WELL BEFORE the infestation reaches a level where ECONOMIC DAMAGE IS IMMINENT. Do NOT apply as a concentrate spray.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

#### WITHHOLDING PERIODS

APPLES, PEARS AND STONE FRUIT: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION

STRAWBERRIES: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION

**WARNING:** Export fruit: This product should not be applied to fruit destined for export to countries where no tolerance has been established for hexythiazox in imports of the particular fruit.

## GENERAL INSTRUCTIONS

**RECOMMENDED ADULTICIDES:** Adulticides recommended for mixing with Farnalinx ZILCH Miticide are listed below.

Recommended Adulticide	Instructions for Application with Farnalinx ZILCH Miticide
TORQUE® Miticide, propargite wettable powder	Refer to Adulticide Label. Apply at the highest rate recommended for the particular pest, crop and State.
Dicofol emulsifiable concentrate	This mixture should only be applied under the supervision of Farnalinx Pty Ltd or its authorised agents. Apply at the highest rate recommended for the particular pest, crop and State.
Summer Spraying Oils conforming to SAA Specifications for C21 NR and C23 NR grades.	Apply at 500 mL/ 100 mL. Apply only as a dilute spray. Apply only to pears and peaches that are destined for canning. Do NOT apply more than once in any season.

## MIXTURES WITH ADULTICIDES:

When Farnalinx ZILCH Miticide is applied with an adulticide, the method of application should comply with the recommendations for both materials.

## MIXING

With the agitation system operating, add the required amount of Farnalinx ZILCH Miticide to the nearly filled spray vat. Add a non-ionic surfactant if required. Mix thoroughly. Add other spray material last. Top up the spray vat. The agitation system should be operated continuously until all the spray is applied. Sprays containing Farnalinx ZILCH Miticide should be used within 3 hours of preparation.

## APPLICATION

### Dilute Spraying

- Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off.
- The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice.
- Add the amount of product specified in the Directions for Use table for each 100L of water. Spray to the point of run-off.
- The required dilute spray volume will change and the sprayer set up and operation may also need to be changed as the crop grows.

### Concentrate Spraying

- Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of run-off) and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume.
- Determine and appropriate dilute spray volume (See **Dilute Spraying** above) for the crop canopy. This is needed to calculate the concentrate mixing rate.
- The mixing rate for concentrate spraying can then be calculated in the following way:

#### EXAMPLE ONLY

1. Dilute spray volume as determined above: For example: 1500 L/ha
  2. Your chosen concentrate spray volume: For example 500 L/ha
  3. The concentration factor in this example is: 3 X (ie.  $1500 \text{ L} \div 500 \text{ L} = 3$ )
  4. If the dilute label rate is 10 mL/ 100 L, then the concentrate rate becomes 3 X 10, that is, 30 mL/ 100 L of concentrate spray.
- The chosen spray volume, amount of product per 100 L of water and the sprayer set up and operation may need to be changed as the crop grows.
  - For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

### Strawberries:

Apply as a dilute spray. Increase the volume from around 1000 L per sprayed hectare on small pre-flowering plants to around 2500 L per sprayed hectare on large, fully developed, fruiting plants. The spray should be directed to ensure the undersides of the leaves are thoroughly covered.

### Ornamentals:

Apply as a dilute spray. Use sufficient volume and direct the spray to ensure that the undersides of the leaves are thoroughly covered.

### BIOLOGICAL CONTROL

Recommendations for where biological control is being practiced should only be followed if one or more of the following are established in the particular orchard: *Typhlodromus occidentalis*, *Typhlodromus pyri*, *Phytoseiulus persimilis*, *Amblyseius womersleyi*. If none of these predators is established, follow the recommendations for where biological control is not being practiced.

### **INSECTICIDE RESISTANCE WARNING**

For insecticide resistance management Farmalinx ZILCH Miticide is a Group 10A Insecticide. Some naturally occurring mite biotypes resistant to Farmalinx ZILCH Miticide and other Group 10A insecticides may exist through normal genetic variability in any mite population. The resistant individuals can eventually dominate the mite population if Farmalinx ZILCH Miticide or other Group 10A Insecticides are used repeatedly. The effectiveness of Farmalinx ZILCH Miticide on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Farmalinx Pty Ltd accepts no liability for any losses that may result from the failure of Farmalinx ZILCH Miticide to control resistant mites.

**GROUP 10A INSECTICIDE**

It has been confirmed by sampling and bio-assay that strains of twospotted mite and European red mite resistant to hexythiazox, the active constituent of Farmalinx ZILCH Miticide, and clofentezine have developed and are established in certain deciduous fruit and rose plantations in Australia. It is thus probable that strains of twospotted mite and European red mite resistant to hexythiazox and clofentezine have developed and are established in other deciduous fruit orchards, rose and other ornamental plantations and strawberry plantings in Australia. SINCE STRAINS OF MITE RESISTANT TO HEXYTHIAZOX AND CLOFENTEZINE CANNOT BE ADEQUATELY CONTROLLED WITH Farmalinx ZILCH Miticide, the buyer of this product or agents or advisers of the buyer should not use or direct that this product be used for the control of mites known or suspected to be resistant to either hexythiazox or clofentezine. In the event that Farmalinx ZILCH Miticide or mixtures containing Farmalinx ZILCH Miticide are found by the buyer or agents or advisers of the buyer to be ineffective in controlling mites, the buyer or agents or advisers of the buyer should immediately advise Farmalinx Pty Ltd and should seek advice concerning effective miticides.

### **RESISTANCE MANAGEMENT**

To delay the development of mites resistant to hexythiazox or clofentezine users of this product are requested to:

1. Endeavour to establish biological control of mites using predatory mites.
2. Limit the total number of applications of these miticides to ONE per season.
3. When using mixtures, ALTERNATE the types of adulticide used where possible.
4. Regularly inspect, maintain and calibrate application equipment to ensure it is operating efficiently. Thorough spray coverage will minimise the number of treatments needed to control mites.

### **COMPATIBILITY**

Farmalinx ZILCH Miticide plus a non-ionic surfactant and Farmalinx ZILCH Miticide plus any one of the recommended adulticides are compatible with a range of commonly used pesticides. Refer to Farmalinx personnel for details.

### **PROTECTION OF WILDLIFE, FISH, CUSTACEANS AND ENVIRONMENT**

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

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## STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. **DO NOT** burn empty containers or product.

## SAFETY DIRECTIONS

Will damage eyes. Will irritate the skin. Avoid contact with eyes and skin. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist and washable hat, elbow length PVC gloves and goggles. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

## FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131 126. If swallowed, do NOT induce vomiting. Give a glass of water. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. Remove from contaminated area. Apply artificial respiration if not breathing. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

## SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for Farmalinx Zlich Miticide is available from FARMALINX Pty Ltd on request. Call Customer Service on 02 9389 2455.

## NOTICE:

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty (other than non-excludable statutory warranties) of merchantability or fitness for a particular purpose, express or implied, extends to the use of product contrary to label instructions, or under off-label permits not endorsed by Farmalinx Pty Ltd or under abnormal conditions. Farmalinx Pty Ltd accepts no liability for any loss or damage arising from incorrect storage, handling or use.

***farmalinx***

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