

# CAUTION

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

**Farmoz**

# Apollo<sup>®</sup>

## MITICIDE

ACTIVE CONSTITUENT: 500 g/L CLOFENTEZINE

**GROUP 10A INSECTICIDE**

***For the residual control of European Red Mite (*Panonychus ulmi*) in Apples and Stone Fruit, Twospotted Mite (*Tetranychus urticae*) in Apples, Bananas, Pears, Stone Fruit, Hops and Ornamentals and Strawberry Spider Mite (*Tetranychus lambi*) in Bananas as specified in the Directions for Use table.***

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**DIRECTIONS FOR USE**

**RESTRAINTS:** DO NOT apply more than 1 spray per season to any crop.  
DO NOT apply to any crop treated earlier in the same season with hexythiazox.  
DO NOT use in orchards where products likely to cause mite flaring have been used or are planned to be used.

**TREE AND VINE CROPS**

<b>RATE</b>					<b>CRITICAL COMMENTS</b>
In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Application Section					
CROP	PEST	STATE	RATE/100 L WATER	WHP (days)	
Apples, Stone Fruit	Twospotted Mite ( <i>Tetranychus urticae</i> ), European Red Mite ( <i>Panonychus ulmi</i> )	All States	30 mL/100 L	21 days	<p><b>IPM ORCHARDS</b> Use where integrated pest management (IPM) is well established. Apply as required when Twospotted Mites are evident but 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. For European Red Mite, apply when the first Summer eggs have been laid, usually about eight weeks after the recommended green tip dormant oil spray (see General Instructions). Apply the IPM rate of a registered knockdown miticide for subsequent applications.</p> <p><b>NON-IPM ORCHARDS</b> EITHER Apply APOLLO alone at first sign of Twospotted Mite movement or when the first European Red Mite Summer eggs have been laid, usually about eight weeks after the recommended green tip dormant oil spray (see General Instructions). OR Apply this tank mix when there are significant numbers of motile mites present but before infestation reaches an economically damaging level. Apply a registered knockdown miticide for subsequent applications.</p>
Pears	Twospotted Mite ( <i>Tetranychus urticae</i> )		EITHER 30 mL/100L  OR 30 mL/100 L in a tank mix with the registered rate of a knockdown miticide		

**TREE AND VINE CROPS – continued**

CROP	PEST	STATE	RATE/100 L WATER	WHP (days)	CRITICAL COMMENTS
Hops	Twospotted Mite ( <i>Tetranychus urticae</i> )	Vic, Tas only	30 mL/100 L in a tank mix with the registered rate of a knockdown miticide	21 days	Apply this tank mix when there are significant numbers of motile mites present but before infestation reaches an economically damaging level. If miticide applications are required after December, apply a registered knockdown miticide.

**NON-TREE AND VINE CROPS**

CROP	PEST	STATE	RATE/100 L WATER	WHP (days)	CRITICAL COMMENTS
Bananas	Twospotted Mite ( <i>Tetranychus urticae</i> ), Strawberry Spider Mite ( <i>Tetranychus lambi</i> )	Qld, NSW, WA only	250 mL/ha in a tank mix with the registered rate of a knockdown miticide	–	Spray when mites first appear. Apply a registered knockdown miticide for subsequent applications.
Ornamentals	Twospotted Mite ( <i>Tetranychus urticae</i> )	All States	30 mL/100 L in a tank mix with the registered rate of a knockdown miticide	–	Apply this tank mix when there are significant numbers of motile mites present but before infestation reaches an economically damaging level. DO NOT use this product until careful checking of mites/predators indicates that control measures are necessary. <b>DO NOT apply this product, or the ovicide hexythiazox (eg. Calibre<sup>®</sup>), more than once per year as over-use will lead to mite resistance.</b>

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

**WITHHOLDING PERIODS:**

**BANANAS, ORNAMENTALS:** NOT REQUIRED WHEN USED AS DIRECTED.  
**APPLES, HOPS, PEARS, STONE FRUIT:** DO NOT HARVEST FOR 21 DAYS 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 clofentezine in imports of the particular fruit.

**GENERAL INSTRUCTIONS**

In orchards where European Red Mite is the main problem, it is recommended that a green tip spray of dormant oil be applied for control of Winter eggs, to be followed by APOLLO as per the Directions for Use.

APOLLO has no deleterious effect on predatory mites and may be used in an Integrated Pest Management programme.

**INSECTICIDE RESISTANCE WARNING**

For insecticide resistance management FARMOZ APOLLO **GROUP 10A INSECTICIDE** Miticide is a Group 10A insecticide. Some naturally occurring mite biotypes resistant to APOLLO 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 APOLLO or other Group 10A insecticides are used repeatedly. The effectiveness of APOLLO on resistant individuals could be significantly reduced.

Since the occurrence of resistant individuals is difficult to detect prior to use, FARMOZ Pty. Ltd. accepts no liability for any losses that may result from the failure of APOLLO to control resistant mites.

It has been confirmed by sampling and bio-assay that strains of Twospotted Mite and European Red Mite resistant to clofentezine, the active constituent of APOLLO, and hexythiazox, have developed and 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 clofentezine and hexythiazox 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 CLOFENTEZINE AND HEXYTHIAZOX CANNOT BE ADEQUATELY CONTROLLED WITH APOLLO, 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 clofentezine or hexythiazox. In the event that APOLLO or mixtures containing APOLLO 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 Farmoz Pty. Ltd. and should seek advice concerning effective miticides.

**RESISTANCE MANAGEMENT**

As a resistance management strategy, APOLLO must always be applied in bananas, hops and ornamentals in a tank-mix with a registered knockdown miticide such as FARMOZ Miti-Fol<sup>®</sup> EC Miticide. To delay the development of mites resistant to clofentezine or hexythiazox 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.

**RECOMMENDED ADULTICIDES:** Adulticides recommended for mixing with APOLLO are listed below:

Recommended Adulticide	Instructions for application with APOLLO
Torque <sup>®</sup> Miticide, propargite wettable powder	Refer to Adulticide label.
FARMOZ Miti-Fol EC Miticide	This mixture should only be applied under the supervision of FARMOZ Pty. Ltd. or its authorized 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 L. 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 APOLLO is applied with an adulticide, the method of application should comply with the recommendations for both materials.

**MIXING**

Use only clean spraying equipment in good condition. Half fill the spray tank with clean water and commence agitation. Add the required quantity of product directly to the water, then add mixing partner and complete filling to the final volume. Spray immediately and maintain agitation throughout. DO NOT allow spray mixture to remain in the tank overnight or for long periods without agitation.

**APPLICATION**

**Special Mixing and Application Instructions for Tree Crops and Vines: Apples, Stone fruit, Pears, Hops**

**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 100 L 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 the 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 an 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 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:  
 $3 \times$  (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  $3 \times 10$ , that is 30 mL/100 L of concentrate spraying.

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.

**Ornamentals:** Use adequate water to ensure thorough coverage of plants depending on spray equipment used and growth stage.

**Bananas:** Apply in 250 to 500 L water/ha, ensuring thorough coverage of foliage.

Immediately after spraying, thoroughly clean all spraying and measuring equipment with clean water and detergent.

#### **COMPATIBILITY**

APOLLO is compatible with most commonly used insecticides and fungicides including knockdown miticides, such as FARMOZ Miti-Fol EC Miticide, dormant oil sprays, mancozeb plus D-C Tron<sup>1</sup>, FARMOZ Aurora<sup>®</sup> 250 Systemic Fungicide, Wuxal<sup>1</sup> Liquid Foliar Nutrient and Wuxal Calcium Foliar Nutrient.

APOLLO is not compatible with lime, sulphur or Bordeaux mixture.

#### **PRECAUTIONS**

##### **Re-entry Period**

DO NOT allow entry into treated area until the spray deposits have dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and elbow-length PVC gloves. Clothing must be laundered after each day's use.

For glasshouses and other confined areas, DO NOT re-enter until spray deposits have dried and area has been thoroughly ventilated.

##### **Drift Warning**

DO NOT apply under weather conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent crops, crop lands, pastures or livestock.

#### **PROTECTION OF CROPS**

While the product is generally safe on ornamental species, always spray several plants initially to ensure that no damage or flower staining occurs.

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

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

#### **STORAGE AND DISPOSAL (1 L)**

Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

#### **STORAGE AND DISPOSAL (2 L, 5 L)**

Store in the closed, original container in a well-ventilated area as cool as possible, out of direct sunlight. This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple or pressure rinse container for disposal. Add rinsings to spray tank. Dispose of the rinsate by adding it to the spray tank. DO NOT dispose of undiluted chemicals on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any *drumMUSTER* collection or similar container management program site. The cap should not be replaced but may be taken separately. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the container below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

#### **SAFETY DIRECTIONS**

Will irritate the eyes and skin. Avoid contact with eyes and skin. Wash hands after use.

#### **FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126.

#### **MSDS**

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for APOLLO is available from FARMOZ on request. Call Customer Service on (02) 9431 7800.

**CONDITIONS OF SALE:** The use of FARMOZ APOLLO Miticide being beyond the control of the manufacturer, no warranty expressed or implied is given by FARMOZ Pty. Ltd., regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and FARMOZ Pty. Ltd. accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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**NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.**

**PACK SIZE: 1 L, 2 L, 5 L**