

Apollo[®] SC

OVICIDE/MITICIDE

GROUP 10A INSECTICIDE

Active Constituent: 500g/L CLOFENTEZINE

Poison Schedule: S5 (CAUTION)

APVMA Approval No: 54059



Eligible containers
5 L

For the residual control of European Red Mite and Bryobia Mite in Pome and Stone fruit, Twospotted mite in pome fruit, bananas, stone fruit, hops and ornamentals and strawberry spider mite in bananas.

Pack Size:

1L (12 x 1L per carton)

5L (4 x 5L per carton)

Dangerous Goods Class:

Not classified as a dangerous good under the Australian Code for Transport and Storage of Dangerous Goods in Australia.

DIRECTIONS FOR USE

RESTRAINTS: DO NOT apply more than 1 spray per season (per year, in the case of ornamentals), of either this product, or the ovicide hexythiazox (eg. Calibre), as over-use will lead to the development of mite resistance.

DO NOT use in orchards where products likely to cause mite flaring have been used or planned to be used.

- DIRECTIONS FOR USE TABLE STARTS ON NEXT PAGE -

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Rate				Critical Comments	
In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Mixing/ Application section.				For all uses in this table: Apply by dilute or the same total amount of product to the concentrate spraying equipment. Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.	
Crop	Pest	State	Rate	WHP	Critical Comments
Pome Fruit, Stone Fruit	Twospotted mite (Tetranychus urticae), European red mite (Panonychus ulmi) Bryobia mite (Bryobia rubriocuhus)	All States	30mL/100L	21 days	IPM Orchards 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 or bryobia mites, apply when the first summer eggs have been laid, usually about eight weeks after the recommended green tip dormant oil spray. Apply the IPM rate of a registered knockdown miticide for subsequent applications.
			EITHER 30mL/100L OR 30mL/ 100L in a tank mix with the registered rate of a knockdown miticide.		Non-IPM orchards EITHER Apply Apollo alone at first sign of twospotted mite movement or when the first European red mite or bryobia mite summer eggs have been laid, usually about eight weeks after the recommended green tip dormant oil spray. 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.

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DIRECTIONS CONTINUED					
Crop	Pest	State	Rate	WHP	Critical Comments
Bananas	Twospotted mite (Tetranychus urticae) Strawberry spider mite (Tetranychus lambi)	QLD, NSW, WA only	250mL/ha in a tank mix with the registered rate of knockdown miticide	-	Spray when mites first appear. Apply registered knockdown miticide for subsequent applications.
Hops	Twospotted mite (Tetranychus urticae)	Vic, Tas only	30mL/100L in a tankmix 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.
Ornamentals	Twospotted mite (Tetranychus urticae)	All states	30mL/100L in a tank mix with the registered rate of 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 mite/predators indicates that control measures are necessary. Do NOT apply this product, or the ovicide hexythiazox (eg. Calibre), more than once per year as over-use will lead to mite resistance.
NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORIZED UNDER APPROPRIATE LEGISLATION.					

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Withholding Period

Bananas, ornamentals: NOT REQUIRED WHEN USED AS DIRECTED.

Pome fruit, hops, stone fruit: DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.

GENERAL INSTRUCTIONS

No more than one spray of either this product, or the ovicide hexythiazox (eg. Calibre), should be applied per season (per year, in the case of ornamentals), as over-use will lead to the development of mite resistance. 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. As a resistance management strategy, Apollo must always be applied in bananas, hops and ornamentals in a tank-mix with a registered knockdown miticide.

Resistance Warning

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APOLLO is a compound of unknown or non-specific mode of action (mite growth inhibitor). For mite resistance management Apollo is a Group 10A Insecticide. Some naturally occurring individual mites resistant to Apollo and other Group 10A miticides may exist through normal genetic variability in any mite population. The resistant individuals can eventually dominate the mite population if these miticides are used repeatedly. These mites will not be controlled by Apollo and other Group 10A miticides, thus resulting in a reduction in efficacy and possible yield loss. Since the occurrence of resistant mites is difficult to detect prior to use, Colin Campbell (Chemicals) Pty Ltd accepts no liability for any losses that may result from the failure of Apollo to control resistant mites.

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, and 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

Good control requires good coverage. Application should be made using sufficient water to ensure thorough coverage.

1. 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.

2. 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 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 spraying can then be calculated in the following way.

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EXAMPLE ONLY

1. Dilute spray volume as determined above: for example 1500L/ha.
 2. Your chosen concentrate spray volume: for example 500L/ha.
 3. The concentration factor in this example is : 3 X (i.e. $1500L / 500L = 3$)
 4. If the dilute label rate is 40mL/100L, then the concentrate rate becomes 3 x 40, that is 120mL/100L of concentrate spray.
- The chosen spray volume, amount of product per 100L 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 Practice.

Pome fruit, stone fruit

Apply as a high volume spray. Most common volumes will be 1500 to 3000L spray/ha depending on tree density and size. Some orchards may require up to 5000L/ha. Ensure thorough coverage of the trees.

Hops, ornamentals

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

Bananas

Apply in 250 to 500L 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, dormant oil sprays mancozeb plus D-C-Tron, propiconazole. Apollo is not compatible with lime sulphur or Bordeaux mixture.

Re-entry Period

Do NOT allow entry into treated areas until the spray deposits have dried. When 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 areas have been thoroughly ventilated.

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 this product or the used containers.

Drift Warning

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

Storage and Disposal

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 return clean containers to recycler or point of sale. If not recycling break, crush or puncture and bury empty containers in a local authority landfill. If not available, bury empty containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and 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 131126.

MATERIAL SAFETY DATA SHEET

For further information refer to the Material Safety Data Sheet (MSDS 73).

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CONDITIONS OF SALE

Agricultural, horticultural and pastoral preparations in their application involve varying factors such as differing conditions, soil, climate and methods of application over which the vendor does not have control, Whilst Colin Campbell (Chemicals) Pty. Ltd believes that all goods sold by it are true to label and are effective and safe for purpose indicated the company and the seller hereby expressly negate and exclude any express or implied condition, statement or warranty, statutory or otherwise, as to quality or fitness of any goods sold for any purpose or purposes whatsoever except such warranties and conditions, if any, as are implied by the Trade Practices Act 1974 (Commonwealth). The company and the seller accept no responsibility for any loss, harm or damage whatsoever suffered from the use of such goods for any purpose or purposes irrespective of whether or not the buyer was acting in reliance upon the advice recommendation or representation of the seller or any representative agent of employee of the company as to such use except in respect of breaches of conditions and warranties, if any, implied by the Trade practices Act and in respect of such breaches the liability of the company and the seller shall be limited to the replacement of the goods or the supply of equivalent goods, or the payment of the cost of replacing the goods.

THIS PRODUCT IS NOT A DANGEROUS GOOD FOR TRANSPORT AND STORAGE IN AUSTRALIA.

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