

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

# VERTIMEC<sup>®</sup>

## MITICIDE/INSECTICIDE

**Active Constituent:** 18 g/L ABAMECTIN

**Solvent:** 265 g/L N-METHYL-2-PYRROLIDONE

**For the control of certain mites and insect pests on Apples, Capsicums, Citrus, Hops, Ornamentals, Pears, Tomatoes and Strawberries.**

**GROUP 6A INSECTICIDE**

NRA Approval No: 50772/0801

**Pack size: 1 L, 5 L**



UN NO. 2902 PESTICIDES, LIQUID, TOXIC, N.O.S.  
 (CONTAINS ABAMECTIN) PACKING GROUP III, HAZCHEM 2X

## GENERAL INSTRUCTIONS

After application VERTIMEC quickly moves into leaves where it remains for several weeks and where it is taken up by sucking mites. VERTIMEC is not systemic making good coverage essential. VERTIMEC that is not absorbed into plants is quickly degraded.

### Insecticide Resistance Warning

For insecticide resistance management VERTIMEC is a Group 6A insecticide. Some naturally occurring insect biotypes resistant to VERTIMEC and other Group 6A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if VERTIMEC and other Group 6A insecticides are used repeatedly. The effectiveness of VERTIMEC on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Syngenta Crop Protection Pty Limited accepts no liability for any losses that may result from failure of VERTIMEC to control resistant insects. VERTIMEC may be subject to specific resistance management strategies. For further information contact your supplier, Syngenta representative or local agricultural department agronomist.

### Crop Monitoring

Effective control depends upon regular monitoring of crops. Check crops regularly (every 3 to 5 days) during the season.

### Mixing

Measure the required amount of VERTIMEC, add to the partly filled spray tank, and then add the remainder of the water. If oil is recommended add this after the VERTIMEC is well mixed. Wetting agent is not required.

### Mixing Instructions for Apple and Pear Applications:

VERTIMEC is not systemic making good coverage essential. To achieve 750 mL VERTIMEC + 5 L Summer oil/ha apply spray at the following mixing rates:

	VERTIMEC (Rate/100 L required)	Summer Oil
1,000 L/ha (minimum)	75 mL	500 mL
1,500 L/ha	50 mL	335 mL
2,000 L/ha	37.5 mL	250 mL
2,500 L/ha	30 mL	200 mL

**Crop Safety:** VERTIMEC plus Summer Oil has very occasionally caused slight fruit russetting on some pear varieties particularly Anjou and other sensitive varieties when used alone or when other products are applied sequentially. A very small amount of temporary apple fruit blemishing has been associated with low water volume applications. DO NOT apply VERTIMEC to apples or pears before or after applications of Delan\* or Captan\*. The Directions for Use and Precautions on Summer Oil labels should be followed carefully. Certain conditions may play a part in the occurrence of this damage. DO NOT make applications:

- when temperatures exceed 28°C or are expected to exceed 28°C within 48 hours after application;
- under poor or slow drying conditions; or
- with equipment that may leave large droplets on fruit after application.

### Application

#### Citrus

To be effective VERTIMEC requires thorough spray coverage. Ensure that equipment is properly calibrated to give an even distribution at the correct volume.

The same quantity of VERTIMEC per hectare should be used when spraying either the dilute or concentrate method.

**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 VERTIMEC 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 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:

#### EXAMPLE ONLY

1. Dilute spray volume as determined above: for example 3000 L/ha
2. Your chosen concentrate spray volume: for example 500 L/ha
3. The concentrate factor in this example is 6X (ie. 3000 L ÷ 500 L = 6)
4. If the dilute label rate is 15 mL/100 L, then the concentrate rate becomes 6 x 15, that is 90 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.

# VERTIMEC®

## Compatibility

VERTIMEC is compatible with Summer Spray Oil\*, BP Summer Spray Oil\*, Codacide\* and with most commonly used insecticides and fungicides. However, as formulations of other manufacturer's products are beyond the control of Syngenta, all mixtures should be tested prior to mixing commercial quantities.

**Crop Specific Strategy:** VERTIMEC should not be applied more than the following number of times:

<i>Apples, Citrus,</i>	
<i>Hops, Pears:</i>	1 spray per season
<i>Capsicums,</i>	
<i>Strawberries:</i>	2 sprays per season
<i>Tomatoes:</i>	2 sprays per crop if mites are present, 5 sprays if mites are not present

In addition, VERTIMEC should not be applied in 2 consecutive seasons or crops without an unrelated chemical being used in between. Alternate VERTIMEC with approved miticides from other chemical groups. Consult your chemical supplier or technical consultant for advice on chemical groups.

## PRECAUTION

**Re-entry Period:** Under field conditions the spray should be allowed to dry on the foliage before re-entry into treated areas. DO NOT allow entry into treated areas in glasshouses for 24 hours after treatment. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and elbow-length butyl rubber gloves.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT apply under weather conditions or from spraying equipment that may cause spray to drift from the target area. Dangerous to fish and other water-borne organisms. DO NOT contaminate streams, rivers or waterways with the chemical or used containers. Dangerous to bees. DO NOT spray any plants in flower while bees are foraging. Studies indicate that when abamectin comes into contact with soil it readily and tightly binds to the soil and becomes inactive over time.

## 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 the 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.

## SAFETY DIRECTIONS

**Poisonous if absorbed by skin contact or swallowed. Will damage eyes. Will irritate the skin. Avoid contact with eyes and skin. DO NOT inhale spray mist.**

**When opening the container, preparing spray and using prepared spray, wear:**

- cotton overalls buttoned to the neck and wrist;
- a washable hat;
- elbow-length butyl rubber gloves; and
- goggles.

**For space applications, wear:**

- cotton overalls buttoned to the neck and wrist;
- a washable hat;
- elbow-length butyl rubber gloves;
- goggles; and
- half facepiece respirator with dust cartridge or canister.

**If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles, respirator (and if rubber, wash with detergent and warm water) and contaminated clothing.**

## FIRST AID

**If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126. If swallowed DO NOT induce vomiting. Give a glass of water. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If in eyes, wash out immediately with water.**

## MATERIAL SAFETY DATA SHEET

If additional hazard information is required, refer to the Material Safety Data Sheet. For a copy phone 1800 067 108 or visit our website at [www.syngenta.com.au](http://www.syngenta.com.au)

## MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY

Syngenta has no control over storage, handling and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Syngenta accepts no liability for any loss or damage arising from incorrect storage, handling or use.

® Registered trademark of a Syngenta Group Company.

\* Registered trademarks.

## DIRECTIONS FOR USE

**Restraint:** DO NOT use if rainfall is expected before spray has dried as reduced efficacy may result.

Crop	Pest	Rate	WHP (days)	Critical Comments
<b>Apples, Pears</b>	European Red Mite ( <i>Panonychus ulmi</i> ), Two-spotted Mite ( <i>Tetranychus urticae</i> )	750 mL/ha plus 5 L/ha summer oil.  (See General Instructions for mixing rates)	14	For best results, apply the product using dilute applications (spraying to the point of run-off). If applying with concentrate applications efficacy may be compromised. DO NOT apply at more than two times concentrate (ie half the dilute water volume). Apply the same total amount of VERTIMEC to the target crop whether applying VERTIMEC by dilute or concentrate spraying methods. DO NOT apply VERTIMEC before or after applications of Delan* or Captan*. In apples, apply VERTIMEC from 2 to 6 weeks after petal fall if monitoring shows high numbers of over-wintering European Red Mite eggs are present, or if mites are a problem early in the season. In pears, timing is not as critical and the application should be made soon after mite numbers have reached the threshold for your area. Generally VERTIMEC takes about 7 days to reach maximum mite control. VERTIMEC will control moderate to high mite populations, but in the absence of predatory mites (see Integrated Pest Control below), retreatment with another miticide may be necessary. If retreatment is required, use an approved miticide from a different chemical group. Refer to notes on resistance and crop safety under General Instructions section of this label. <b>Integrated Pest Control:</b> The effects of VERTIMEC on parasitic wasps and other beneficial insects in Australian orchards are not fully known. Studies have shown that after application of VERTIMEC, predatory mite populations may not increase for a number of weeks, due to a lack of suitable pest mite prey. Predatory mite numbers will increase with any increase in pest mite numbers allowing the continuation of biological mite control. DO NOT use in IPM programs unless the pest mite threshold has been reached and predators are unlikely to achieve effective control.
<b>Capsicums</b>	Two-spotted Mite ( <i>Tetranychus urticae</i> )	300 mL/ha	3	Thorough coverage and penetration into the plant canopy is essential. Preferably apply before the build-up of mite numbers. Re-apply as pest numbers indicate. Alternate with other chemical groups. Allow at least 28 days between applications with VERTIMEC and DO NOT use more than 2 VERTIMEC sprays per crop. Refer to notes on resistance under General Instructions section of this label.
<b>Citrus</b>	Broad Mite ( <i>Polyhagotarsonemus latus</i> ) Brown Citrus Rust Mite ( <i>Tegolophus australis</i> ) Citrus Rust Mite ( <i>Phyllocoptera oleivora</i> )	<b>Dilute Spray:</b> 15 mL/100 L or 25 mL/100 L plus 250 mL/100 L summer oil <b>Concentrate Spray:</b> Refer to the Application Section-Citrus	7	Apply as pest pressure indicates as a dilute spray in 3000 to 6000 L water/ha. Apply by dilute or concentrate spraying equipment. Use the higher rate under conditions of high pest pressure. Apply the same total amount of VERTIMEC to the target crop whether applying VERTIMEC by dilute or concentrate spraying methods. Make no more than one application per season.
<b>Hops</b>	Two-spotted Mite ( <i>Tetranychus urticae</i> )	1 L/ha	28	Apply as pest pressure indicates as a dilute spray in 1000 to 2000 L water/ha, depending on crop size. Make no more than one application per season.
<b>Strawberries</b>	Two-spotted Mite ( <i>Tetranychus urticae</i> )	100 mL/100 L  If spray volume is less than 600 L/ha, use a minimum of 600 mL VERTIMEC/ha. DO NOT exceed 1200 mL VERTIMEC/ha	3	Spray to wet foliage to near the point of run-off. Thorough coverage and penetration into plants is essential. Preferably apply on first appearance of mites. When applied early, one application may be sufficient to give effective control however, if mite numbers exceed 3 to 5 mites per leaflet, apply 2 applications spaced 7 to 10 days apart. Re-apply as pest numbers indicate to a maximum of 2 sprays with VERTIMEC per season. If re-treatment is required after 2 consecutive sprays with VERTIMEC, use an approved miticide from a different chemical group. <b>Integrated Pest Control:</b> see comments in the apple and pear section. Refer to notes on resistance under General Instruction section of this label.

(continued)

## DIRECTIONS FOR USE – *continued*

Crop	Pest	Rate	WHP (days)	Critical Comments
Tomatoes – Field grown (not trellised)	Two-spotted Mite ( <i>Tetranychus urticae</i> )	300 mL/ha or 450 mL/ha	3	Apply in sufficient volume to obtain even coverage and penetration of plants. Use droppers to direct spray onto plants and away from the inter-row. Preferably apply before the build-up of mite numbers. If mite numbers exceed 5 mites/compound leaf, use the higher rate. Re-apply as pest numbers indicate. Allow at least 28 days between applications with VERTIMEC and DO NOT use more than 2 VERTIMEC sprays per crop. Refer to notes on resistance under General Instructions section of this label.
	Tomato Russet Mite ( <i>Aculops lycopersici</i> )			Apply as for Two-spotted Mite. The lower rate will control Tomato Russet Mite not apparent at spraying. Use the higher rate when Tomato Russet Mite is present at spraying or is the main pest present.
	Tobacco Leafminer (Potato Moth) ( <i>Phthorimaea operculella</i> )	600 mL/ha		Apply in sufficient volume to obtain even coverage and penetration of plants. Use droppers to direct spray onto plants away from the inter-row. Apply on the first sign of pests. Re-apply as pest numbers indicate or every 7 to 10 days with a maximum of 5 applications to the crop. If mites are also a problem DO NOT use more than 2 VERTIMEC sprays per crop. Refer to notes on resistance under General Instructions section of this label. <b>Note:</b> Other IPM strategies to reduce leafminer populations should be employed.
Tomatoes Trellised or staked tomatoes	Two-spotted Mite ( <i>Tetranychus urticae</i> )	High volume spraying: 300 mL/ha or 450 mL/ha using concentrations of 60 mL/100 L or 90 mL/100 L	Nil	Wet foliage to near the point of run-off. Thorough coverage and penetration into bushes is essential. Preferably apply before the build-up of mite numbers. If mite numbers exceed 5 to 6 mites/compound leaf, use the higher rate. Reapply as pest numbers indicate. Allow at least 28 days between applications with VERTIMEC and DO NOT use more than 2 VERTIMEC sprays per crop. Refer to notes on resistance under General Instructions section of this label.
	Tomato Russet Mite ( <i>Aculops lycopersici</i> )			Apply as for Two-spotted Mite. The lower rate will control Tomato Russet Mite not apparent at spraying. Use the higher rate when Tomato Russet Mite is present at spraying or is the main pest present.
	Tobacco Leafminer (Potato Moth) ( <i>Phthorimaea operculella</i> )	High volume spraying: 600 mL/ha using concentrations of 120 mL/100 L		Wet foliage to near the point of run-off. Thorough coverage and penetration into bushes is essential. Apply on the first sign of pests. Re-apply as pest numbers indicate or every 7 to 10 days with a maximum of 5 applications to the crop. If mites are also a problem DO NOT use more than 2 VERTIMEC sprays per crop. Refer to notes on resistance under General Instructions section of this label. <b>Note:</b> Other IPM strategies to reduce leafminer populations should be employed.
Ornamentals including Roses, Chrysanthemums, Carnations and indoor foliage plants	Two-spotted Mite ( <i>Tetranychus urticae</i> )	50 mL/100 L to a maximum of 1.5 L/ha	Nil	Spray to wet foliage to near the point of run-off using at least 2000 L water/ha (100 L/500 square metres). Thorough coverage and penetration into plants is essential. Preferably apply on first appearance of mites. When applied when pest numbers are low to moderate, one application will be sufficient to give effective control, however if mites are numerous, apply a second application 7 to 10 days later. DO NOT use overhead irrigation within 24 hours after application. DO NOT use on Ferns and Shasta. For ornamentals not listed on the label, small test applications to assess for unexpected phytotoxicity should be made before spraying the whole crop. DO NOT use more than 2 times per season. Refer to notes on resistance under General Instructions section of this label.

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

**WITHHOLDING PERIODS:**

**Apples, Pears:** DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.  
DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION.

**Citrus:** DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

**Hops:** DO NOT HARVEST, GRAZE OR CUT FOR STOCKFOOD FOR 4 WEEKS AFTER APPLICATION.

**Capsicums, Strawberries, Tomatoes:** DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.  
DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 3 DAYS AFTER APPLICATION.

**Ornamentals:** NOT REQUIRED WHEN USED AS DIRECTED.  
DO NOT GRAZE OR CUT FOR STOCK FOOD.