



# CAUTION

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

FORMULATION TYPE  
**SC** Suspension Concentrate

**ACTIVE CONSTITUENT:**  
440 g/L BUPROFEZIN

**CONTENTS:**  
1 L, 5 L, 10 L, 20 L



**GROUP 16 INSECTICIDE**

**For the control of red scale and white louse scale, jassids (leafhoppers) and longtail, citrus and citrophilous mealybugs in citrus crops; mealybugs in grapes and pears; mealybugs and scales in persimmons, custard apples and passionfruit and mango scale in mangoes as specified in the Directions for Use Table.**

## SAFETY DIRECTIONS

Will irritate the eyes. Avoid contact with eyes. Wash hands after use. When opening the container, preparing spray and using the prepared spray, wear cotton overalls, over normal clothing, buttoned to the neck and wrist, a washable hat and elbow-length PVC gloves. After each day's use, wash gloves, and contaminated clothing.

## FIRST AID

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons information Centre (Phone: Australia 13 11 26).

## SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet available from [www.fmccrop.com.au](http://www.fmccrop.com.au)

## GENERAL INSTRUCTIONS

### INSECTICIDE RESISTANCE WARNING

**GROUP 16 INSECTICIDE**

For insect resistance management Strident® is a Group 16 insecticide. To minimise the risk of resistance developing, a total of no more than two applications of Strident® Insecticide should be made on a crop per season. Some naturally occurring insect biotypes resistant to Strident® and other Group 16 insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Strident® or other Group 16 insecticides are used repeatedly. The effectiveness of Strident® on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, FMC Australasia Pty Ltd accepts no liability for any losses that may result from the failure of Strident® to control resistant insects. Strident® may be subject to specific resistance management strategies. For further information contact your local supplier or FMC representative.

## MIXING/APPLICATION

Prior to pouring, shake container vigorously, then add the required quantity of Strident® Insecticide to water in the spray vat while stirring or with agitators in motion.

### Dilute Spraying

Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the stage of growth of crop being sprayed.

Calibrate 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 specialist 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, sprayer calibration and operation may all need to be changed, as the crop grows.

### Concentrate Spraying

Use a sprayer designed and calibrated 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 stage of crop being sprayed.

Calibrate 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 concentration mixing rate.

The mixing rate for concentrated 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:  
 $3 \times$  (i.e.  $1500 \text{ L} \div 500 \text{ L} = 3$ )
4. If the dilute label rate is 100 g/100 L, then the concentrate rate becomes  $3 \times 100$  that is 300 g /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.

#### APPLICATION INSTRUCTIONS – CITRUS ONLY

Apply Strident® Insecticide in sufficient water to ensure complete wetting of all surfaces.

#### Oscillating booms

A spray volume of 7,000 to 12,000 L water/ha should be used for trees up to 5 m high. To optimise control the following application procedures are recommended:

- (a) ground speed – 2.3 to 2.75 km/h
- (b) pump pressure – 3000 to 5000 kPa
- (c) oscillation rate – 90-110 oscillations per minute
- (d) spray patters – adjacent ones marrying at about 1.75 m (i.e. narrow cone angle, but the maximum angle consistent with good tree penetration).
- (e) agitation – 1 large paddle per 500 L; paddles should clear the bottom of the vat by about 10 mm and should have the same orientation.
- (f) boom set set angle of top to match tree size.

#### Air-blast sprayers

Air-blast sprayers may be used for control of jassids/leafhoppers but are less suitable for control of scales and mealy bugs. For jassid control, use spray volumes of approximately 5000 L/ha.

#### COMPATIBILITY

Strident® Insecticide is compatible with mancozeb and a number of other agricultural chemicals commonly used on the same crops. Please contact your supplier or FMC representative for further information on compatibility.

Strident® Insecticide is not compatible with Sacoa\* BioPest Oil or with products that are highly alkaline or

highly acidic.

#### CLEANING SPRAY EQUIPMENT

After using Strident® Insecticide, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean the filters in the tank, pump, lines and nozzles.

After cleaning the tank and filters as above, quarter fill the tank with clean water and circulate through the pumps, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

Rinse water should be discharged onto a designated disposal area, or if this is unavailable, onto unused land away from plants and water courses.

#### PRECAUTIONS – RE-ENTRY PERIOD

**DO NOT** enter treated areas without protective clothing until the spray has dried.

#### PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

**DO NOT** apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby plants/crops, cropping lands or pastures.

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

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

**May be toxic to crustaceans.** Run-off from treated areas should be prevented from entering waterways.

**DO NOT** apply if heavy rain is imminent.

Irrigation should not take place within 24 hours of treatment.

#### PROTECTION OF NON-TARGET INSECTS

Strident® Insecticide at label rates of 30 to 60 mL/100 L has been demonstrated to be safe to a range of predatory and beneficial insects including bumblebees and honeybees, parasitoid wasps such as *Aphytis lignanensis*, *Leptomastix dactylopii* and *Encarsia* spp., predatory mites such as *Phytoseiulus persimilis* and *Typhlodromus occidentalis* and the green lacewing (*Mallada signatus*). Strident® Insecticide has no significant effect on adult ladybeetles but is known to be toxic to early instars of *Cryptolaemus montrouzieri*, *Chilocorus circumdatus* and *Harmonia conformis*. Strident® may also affect egg hatch of these species for 2 to 3 weeks after application.

#### STORAGE AND DISPOSAL

Keep out reach of children.

Store in the closed, original container in a cool, well-ventilated area. **DO NOT** store for prolonged periods in direct sunlight. **DO NOT** store near foodstuffs, fertilizers or seed.

#### Non-returnable containers only

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 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.

#### **SMALL SPILL MANAGEMENT**

Wear protective equipment (see Safety Directions). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. When absorption is completed, sweep up material and contain in a refuse vessel for disposal (see Storage and Disposal section). If necessary wash the spill area with an alkali detergent and water and absorb the wash liquid for disposal as described above.

## DIRECTIONS FOR USE

### RESTRAINTS

DO NOT apply by air.

DO NOT apply more than twice per year in any crop.

Wine grapes: DO NOT apply later than 80% capfall.

In this table, all rates given are for dilute spraying. For concentrate spraying, refer to the 'Concentrate spraying' section.			
TREE AND VINE CROPS	INSECT PEST	RATE/100 L WATER	CRITICAL COMMENTS
<b>Citrus including: Oranges, Lemons, Mandarins, Grapefruit, Limes</b>	Red Scale, White Louse Scale, Longtail Mealybug, Citrus Mealybug, Citrophilous Mealybug	30 – 60 ml	<b>Scales:</b> Apply when there is a heavy crawler emergence, particularly in late summer. When the infestation is severe, a second application may be required 14-28 days later. Strident® Insecticide works best in an integrated pest management (IPM) program where parasites such as <i>Aphytis</i> spp. are active. <b>Mealybugs:</b> Apply if thresholds are exceeded in spring-summer. Repeat after 21-28 days if necessary. <b>Rate:</b> Use the high rate when heavy infestations of the pests occur and/or where IPM systems have not effectively managed pest populations.
	Jassids (Leafhoppers)	30 mL	Apply when thresholds are exceeded in January and again in February if required. Apply when juvenile stages predominate.
<b>Custard apples</b>	Mealybugs, Scale Insects	30 – 60 mL	Apply a maximum of 2 sprays per season, 21 days apart, as a high volume cover spray to run-off using air blast or high volume hydraulic nozzles.
<b>Grapes</b>	Longtail Mealybug and Tuber Mealybug	30 – 60 mL	Apply twice, 14-21 days apart, starting when the first emergence of crawlers is observed. Use the high rate when heavy infestations occur and/or where IPM systems have not effectively managed pest populations.
<b>Mangoes</b>	Mango Scale	60 mL	Monitor scales and apply when the majority of crawlers have emerged. This usually coincides with tree flushing after harvest and in spring when fruit are 1.5 to 2.0 cm across. A repeat application within 14-28 days may be necessary. <b>DO NOT</b> use mineral oils as fruit blotching may occur.
<b>Passionfruit</b>	Mealybugs, Scale Insects	30 – 60 mL	Apply a maximum of 2 sprays per season, 21 days apart when significant pest infestations develop. Apply as a high volume cover spray to run-off using air blast or high volume hydraulic nozzles.
<b>Pears</b>	Longtail Mealybug	30 – 60 mL	Apply twice, 10-14 days apart between swollen bud and the end of flowering in sufficient volume to ensure the bark is soaked, with thorough coverage to the point of run-off. Use the high rate when heavy infestations occur and/or where IPM systems have not effectively managed pest populations, particularly under harsh environmental conditions.
<b>Persimmons</b>	Mealybugs, Scale Insects	60 mL	Apply a maximum of two sprays per season, 14 days apart. Apply when the first batch of scale or mealybug crawlers occur after winter.
<p><b>Note:</b> To optimise control of mealybugs in most crops it is critical to time treatment to coincide with the first emergence of crawlers.  <b>If it is intended to release <i>Cryptolaemus</i> ladybeetles as part of an IPM system, the last application of Strident® Insecticide should be made no later than 60 days before the anticipated release date.</b></p>			

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

### WITHHOLDING PERIODS (HARVEST):

Passionfruit: **DO NOT** HARVEST FOR 1 DAY AFTER APPLICATION.

Custard Apple: **DO NOT** HARVEST FOR 2 WEEKS AFTER APPLICATION.

Citrus, Mango and Persimmon: **DO NOT** HARVEST FOR 4 WEEKS AFTER APPLICATION.

Pears and Table Grapes: **DO NOT** HARVEST FOR 8 WEEKS AFTER APPLICATION.

Wine Grapes: NOT REQUIRED WHEN USED AS DIRECTED (i.e. **DO NOT** apply Strident® after 80% capfall).

**TRADE ADVICE:**

Crops such as table grapes grown for export may require a longer interval before harvest to comply with residue standards of importing countries. Please check with your exporter before using Strident® insecticide.

**NOTICE TO BUYER**

To the extent permitted by the Competition and Consumer Act (2010) or any relevant legislation of any State or Territory (the "Legislation") all conditions and warranties and statutory or other rights of action, whether arising in contract or tort or whether due to the negligence of FMC or Seller, which buyer or any other user may have against FMC or Seller are hereby excluded provided however that any rights of the buyer pursuant to non-excludable conditions or warranties of the Legislation are expressly preserved. FMC hereby gives notice to buyer and other users that to the extent permitted by the Legislation it will not accept responsibility for any indirect or consequential loss of whatsoever nature arising from the storage, handling or use of this product. Where permitted by the Legislation FMC's liability shall in all circumstances be limited to the replacement of the product, or a refund of the purchase price paid therefor.

The product must be used and applied strictly in accordance with the label instructions and other directions for use. It is impossible to eliminate all risks associated with the use of this product. Such risks may arise from factors such as weather conditions, soil factors, off target movement, unconventional technique, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of FMC or the Seller. Buyer accepts these risks.

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**IN A TRANSPORT EMERGENCY CALL 000 POLICE OR FIRE BRIGADE**

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ALL HOURS – AUSTRALIA WIDE**

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