

# CAUTION

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



LIFT  
HERE

FARMALINX

# Scale & Bug

## INSECTICIDE

ACTIVE CONSTITUENT: 440 g/L BUPROFEZIN



**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.*

**IMPORTANT: READ THE ATTACHED LEAFLET BEFORE  
OPENING OR USING**

CONTENTS **1 Litre**

***farmalinx***

FARMALINX Pty Ltd ABN 95 134 353 245

South Sydney Corporate Park, Unit W2E,

75-85 O'Riordan Street, Alexandria NSW 2015

T: 02 8338 9473 F: 02 9313 4352

**STORAGE AND DISPOSAL:** 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. Rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. Dispose of at 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.

**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.

**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 poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

**MATERIAL SAFETY DATA SHEET:** Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for FARMALINX Scale & Bug Insecticide is available from FARMALINX Pty Ltd on request. Call Customer Service on 02 8338 9473.

**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 the 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.

APVMA Approval No.: 64932/1L/0310

**SPECIALIST ADVICE IN AN  
EMERGENCY ONLY**

**1800 024 973**

**ALL HOURS – AUSTRALIA WIDE**

**BARCODE**

Batch No.

Date of Manufacture

FARMALINX SCALE & BUG INSECTICIDE 1L – Size: 65 mm wide x 90mm deep  
FILENAME: 64932\_49623\_1L Leaflet\_MPL\_V2  
SCALE SIZE: PRINT AT 100% ON A4/A3 PAPER DATE: 21/04/10

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FARMALINX

# Scale & Bug

## INSECTICIDE

ACTIVE CONSTITUENT: 440 g/L BUPROFEZIN

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.*

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

CONTENTS **1 Litre**

***farmalinx***

FARMALINX Pty Ltd ABN 95 134 353 245  
South Sydney Corporate Park, Unit W2E,  
75-85 O'Riordan Street, Alexandria NSW 2015  
T: 02 8338 9473 F: 02 9313 4352



**DIRECTIONS FOR USE (ALL STATES):****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.

<b>RATE:</b> In the following table, all rates given are for dilute spraying. For concentrate spraying refer to "concentrate spraying" section.			<b>CRITICAL COMMENTS</b>
<b>TREE &amp; VINE CROP</b>	<b>INSECT PEST</b>	<b>RATE/100 L WATER</b>	
Citrus including: Oranges Lemons Mandarins Grapefruit Limes	Red Scale, White Louse Scale, Longtail Mealybug, Citrus Mealybug, Citrophilous Mealybug	30 – 60 mL	<p><b>Scales:</b> Apply when there is heavy crawler emergence, particularly in late Summer. Where the infestation is severe, a second application may be required 14-28 days later. FARMALINX Scale &amp; Bug Insecticide works best in an integrated pest management (IPM) programme where parasites such as <i>Aphytis</i> spp. are active.</p> <p><b>Mealybugs:</b> Apply if thresholds are exceeded in Spring-Summer. Repeat after 21-28 days if necessary.</p> <p><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.</p>
	Jassids (leafhoppers)	30 mL	
Custard apples	Mealybugs, Scale insects	30 – 60 mL	Apply a maximum of two sprays per season, 21 days apart, as a high volume cover spray to run-off using air blast or high volume hydraulic nozzles.
Grapes	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.

TREE & VINE CROP	INSECT PEST	RATE/100 L WATER	CRITICAL COMMENTS
Mangoes	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. DO NOT use mineral oils as fruit blotching may occur.
Passionfruit	Mealybugs, Scale insects	30 – 60 mL	Apply a maximum of two 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.
Pears	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.
Persimmons	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 optimize control of mealybugs in most crops it is critical to time treatment to coincide with the first emergence of crawlers.</p>			<p><b>If it is intended to release <i>Cryptolaemus</i> ladybeetles as part of an IPM system, the last application of FARMALINX Scale &amp; Bug 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):****Passion fruit: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION****Custard apple: DO NOT HARVEST FOR 2 WEEKS AFTER APPLICATION****Citrus, Mango & Persimmon:****DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION****Pears & Table grapes:****DO NOT HARVEST FOR 8 WEEKS AFTER APPLICATION****Wine grapes: NOT REQUIRED when used as directed (i.e. DO NOT apply FARMALINX Scale & Bug Insecticide after 80% capfall).****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 FARMALINX Scale & Bug Insecticide.****GENERAL INSTRUCTIONS****MIXING/APPLICATION**

Prior to pouring, shake container vigorously, then add the required quantity of FARMALINX Scale & Bug 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 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:  $3 \times$  (ie  $1500 \text{ L} \div 500 \text{ L} = 3$ )
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 FARMALINX Scale & Bug 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 5m high. To optimize 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 pattern adjacent cones marrying at about 1.75m (i.e. narrow cone angle, but the maximum angle consistent with good tree penetration).
- e) agitation 1 large paddle per 500L; paddles should clear the bottom of the vat by about 10mm and should have the same orientation.
- f) boom set set angle of top to match tree size.

- **Airblast sprayers**

Airblast 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

FARMALINX Scale & Bug Insecticide is compatible with Dithane Rainshield Neo Tec Fungicide and a number of other agricultural chemicals commonly used on the same crops. Please contact your supplier or FARMALINX representative for further information on compatibility. FARMALINX Scale & Bug Insecticide is not compatible with Sacoa BioPest Oil or with products that are highly alkaline or highly acidic.

#### CLEANING SPRAY EQUIPMENT

After using FARMALINX Scale & Bug Insecticide, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean all 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.

#### INSECTICIDE RESISTANCE WARNING

For insecticide resistance management FARMALINX Scale & Bug Insecticide is a Group 16 insecticide. To minimize the risk of resistance developing, a total of no more than two applications of FARMALINX Scale & Bug Insecticide should be made on a crop per season. Some naturally occurring insect biotypes resistant to FARMALINX Scale & Bug Insecticide 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 FARMALINX Scale & Bug Insecticide or other Group 16 insecticides are used repeatedly. The effectiveness of FARMALINX Scale & Bug Insecticide 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 Scale

**GROUP 16 INSECTICIDE**

& Bug Insecticide to control resistant insects. FARMALINX Scale & Bug Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier or FARMALINX representative.

#### 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 LIVESTOCK

DO NOT allow stock to graze grasses or weeds under treated trees.

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

DO NOT contaminate streams, rivers or waterways with the chemical 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

FARMALINX Scale & Bug Insecticide at label rates of 30 to 60 mL/100L water 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*). FARMALINX Scale & Bug 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*. FARMALINX Scale & Bug Insecticide may also affect egg hatch of these species for 2 to 3 weeks after application.

#### **STORAGE AND DISPOSAL**

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.

Rinse containers before disposal. Add rinsings to spray tank. **DO NOT** dispose of undiluted chemicals on site. Dispose of at 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.

#### **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.

#### **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 poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

#### **MATERIAL SAFETY DATA SHEET**

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for FARMALINX Scale & Bug Insecticide is available from FARMALINX Pty Ltd on request. Call Customer Service on 02 8338 9473.



**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 the 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***

**FARMALINX Pty Ltd**

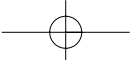
ABN 95 134 353 245

South Sydney Corporate Park, Unit W2E,  
75-85 O'Riordan Street, Alexandria NSW 2015

**T:** 02 8338 9473 **F:** 02 9313 4352

**Website:** [www.farmalinx.com](http://www.farmalinx.com)

APVMA Approval No.: 64932/1LL/0310



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

FARMALINX

# Scale & Bug

**INSECTICIDE**

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

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T: 02 8338 9473 F: 02 9313 4352 W: [www.farmalinx.com](http://www.farmalinx.com)

CONTENTS  
**10 Litres**

FARMALINX

# Scale & Bug

## INSECTICIDE

### STORAGE AND DISPOSAL

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

**Recycled containers:** 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.

**Non-recycled containers:** Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. **DO NOT** dispose of undiluted chemicals on-site. 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.

### 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.

### 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 poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

### MATERIAL SAFETY DATA SHEET

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APVMA Approval No.: 64932/5-10L/0310

	IN A TRANSPORT EMERGENCY <b>DIAL 000</b> POLICE OR FIRE BRIGADE
	SPECIALIST ADVICE IN AN EMERGENCY ONLY <b>1800 024 973</b> ALL HOURS – AUSTRALIA WIDE

Barcode
Barcode

Batch No.
Batch No.
Date of Manufacture
Date of Manufacture

**farmalinx**

FARMALINX

# Scale & Bug

INSECTICIDE

**DIRECTIONS FOR USE (ALL STATES):**

**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.

RATE In the following table, all rates given are for dilute spraying. For concentrate spraying refer to "concentrate spraying" section.			CRITICAL COMMENTS
TREE & VINE CROP	INSECT PEST	RATE/100 L WATER	
Citrus including: Oranges Lemons Mandarins Grapefruit Limes	Red Scale, White Louse Scale, Longtail Mealybug, Citrus Mealybug, Citrophilous Mealybug	30 – 60 mL	<b>Scales:</b> Apply when there is heavy crawler emergence, particularly in late Summer. Where the infestation is severe, a second application may be required 14-28 days later. FARMALINX Scale & Bug Insecticide works best in an integrated pest management (IPM) programme 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.
Custard apples	Mealybugs, Scale insects	30 – 60 mL	Apply a maximum of two sprays per season, 21 days apart, as a high volume cover spray to run-off using air blast or high volume hydraulic nozzles.
Grapes	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.
Mangoes	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. DO NOT use mineral oils as fruit blotching may occur.
Passionfruit	Mealybugs, Scale insects	30 – 60 mL	Apply a maximum of two 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.
Pears	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.
Persimmons	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 optimize control of mealybugs in most crops it is critical to time treatment to coincide with the first emergence of crawlers. If it is intended to release <i>Cryptolaemus</i> ladybeetles as part of an IPM system, the last application of FARMALINX Scale &amp; Bug Insecticide should be made no later than 60 days before the anticipated release date.</p>			

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

**WITHHOLDING PERIODS (HARVEST):**

Passion fruit: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION  
Custard apple: DO NOT HARVEST FOR 2 WEEKS AFTER APPLICATION  
Citrus, Mango & Persimmon: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION  
Pears & Table grapes: DO NOT HARVEST FOR 8 WEEKS AFTER APPLICATION  
Wine grapes: NOT REQUIRED when used as directed (i.e. DO NOT apply FARMALINX Scale & Bug Insecticide after 80% capfall).

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 FARMALINX Scale & Bug Insecticide.

**GENERAL INSTRUCTIONS**

**MIXING/APPLICATION**

Prior to pouring, shake container vigorously, then add the required quantity of FARMALINX Scale & Bug 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 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 L ÷ 500 L = 3)  
4. If the dilute label rate is 100 g/100 L, then the concentrate rate becomes 3 x 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 FARMALINX Scale & Bug 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 5m high. To optimize 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 pattern adjacent cones marrying at about 1.75m (i.e. narrow cone angle, but the maximum angle consistent with good tree penetration).
- e) agitation 1 large paddle per 500L; paddles should clear the bottom of the vat by about 10mm and should have the same orientation.
- f) boom set set angle of top to match tree size.

**Airblast sprayers**

Airblast 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**

FARMALINX Scale & Bug Insecticide is compatible with Dithane Rainshield Neo Tec Fungicide and a number of other agricultural chemicals commonly used on the same crops. Please contact your supplier or FARMALINX representative for further information on compatibility. FARMALINX Scale & Bug Insecticide is not compatible with Sacoa BioPest Oil or with products that are highly alkaline or highly acidic.

**CLEANING SPRAY EQUIPMENT**

After using FARMALINX Scale & Bug Insecticide, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean all 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.

**INSECTICIDE RESISTANCE WARNING**

For insecticide resistance management FARMALINX Scale & Bug Insecticide is a Group 16 insecticide. To minimize the risk of resistance developing, a total of no more than two applications of FARMALINX Scale & Bug Insecticide should be made on a crop per season. Some naturally occurring insect biotypes resistant to FARMALINX Scale & Bug Insecticide 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 FARMALINX Scale & Bug Insecticide or other Group 16 insecticides are used repeatedly. The effectiveness of FARMALINX Scale & Bug Insecticide 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 Scale & Bug Insecticide to control resistant insects. FARMALINX Scale & Bug Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier or FARMALINX representative.

**GROUP 16 INSECTICIDE**

**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.

**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 poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

**MATERIAL SAFETY DATA SHEET**

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for FARMALINX Scale & Bug Insecticide is available from FARMALINX Pty Ltd on request. Call Customer Service on 02 8338 9473.

**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 the 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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APVMA Approval No.: 64932/0310

**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 LIVESTOCK**

DO NOT allow stock to graze grasses or weeds under treated trees.

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

DO NOT contaminate streams, rivers or waterways with the chemical 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**

FARMALINX Scale & Bug Insecticide at label rates of 30 to 60 mL/100L water 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*). FARMALINX Scale & Bug 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*. FARMALINX Scale & Bug Insecticide may also affect egg hatch of these species for 2 to 3 weeks after application.

**STORAGE AND DISPOSAL**

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. **Recycled containers:** 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. Dispose of rinsate by adding 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 site. The cap should not be replaced but may be taken separately. **Non-recycled containers:** Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. 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.

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

**Scale & Bug**

INSECTICIDE

ACTIVE CONSTITUENT: 440 g/L BUPROFEZIN

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.

IMPORTANT: THIS LEAFLET IS PART OF THE LABEL ATTACHED TO THE CONTAINER. READ THOROUGHLY BEFORE OPENING OR USING THIS PRODUCT

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