



1L white top label RHS: 100 mm (h) x 110 mm (w)



Artwork is at 100%

Workhouse job #: DE13021

Artwork revision date: 12/01/07



**PACKAGING ARTWORK:** Lorsban 500 EC 1 L - Front Top label

**APVMA APPROVAL #:** 32887/1/0107

|                    | FINAL APPROVAL | DATE |
|--------------------|----------------|------|
| Marketing          |                |      |
| Regulatory Affairs |                |      |



**THE WORKHOUSE VISUAL COMMUNICATIONS**  
 PTY. LTD. ABN 36 051 781 607  
 LEVEL 1, 50 YEO STREET,  
 NEUTRAL BAY NSW 2089  
 POST OFFICE BOX 17  
 NEUTRAL BAY NSW 2089  
 TELEPHONE: (02) 9953 1494  
 FACSIMILE: (02) 9953 5492

**STORAGE AND DISPOSAL**

Store in closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Do NOT store near food, feedstuffs, fertilisers or seed. Rinse container before disposal. Add rinsings to the 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, cat litter or clay granules to the spill. Sweep up material when absorption is completed and contain in a refuse vessel for disposal in the same manner as for containers (see STORAGE AND DISPOSAL section). If spilled inside a building wash contaminated surfaces to deactivate the Chlorpyrifos with a solution of bleach (sodium hypochlorite) prepared according to the bleach label instructions.

**SAFETY DIRECTIONS**

- Product is poisonous if absorbed by skin contact, inhaled or swallowed.
- Repeated exposure may cause allergic disorders.
- Repeated minor exposure may have a cumulative poisoning effect.
- Obtain an emergency supply of atropine tablets 0.6 mg
- Will irritate eyes and skin
- Avoid contact with eyes and skin.
- Do not inhale vapour or spray mist.
- When opening the container, preparing the spray or bait, using the prepared spray or bait, wear chemical resistant clothing buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves, goggles, impervious footwear and half face piece respirator with combined dust and gas cartridge.

- If product on skin, immediately wash area with soap and 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, contaminated clothing and if rubber wash with detergent and warm water.

**FIRST AID**

- If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone: Australia 13 11 26) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed.
- If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

**MATERIAL SAFETY DATA SHEET**

Additional information is listed in the Material Safety Data Sheet for **LORSBAN 500 EC INSECTICIDE** which is available on request from Dow AgroSciences. Call Customer Service Toll Free on 1-800 700 096 or visit [www.dowagrosciences.com.au](http://www.dowagrosciences.com.au)

**NOTICE**

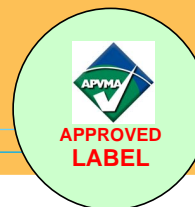
Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions, or under off-label permits not endorsed by Dow AgroSciences, or under abnormal conditions.

GMID: 01/07

**UN No. 3018  
PESTICIDES  
ORGANOPHOSPHORUS,  
LIQUID, TOXIC, N.O.S.  
PKG III  
HAZCHEM 2X**



Made in New Zealand.  
**APVMA Approval No: 32887/1/0107**  
D.O.M./Batch No:



1L back label: 100 mm (h) x 155 mm (w)

Workhouse job #: DE13021

Artwork revision date: 12/01/07



**PACKAGING ARTWORK:** Lorsban 500 EC 1 L - Back label

**APVMA APPROVAL #:** 32887/1/0107

|                    | FINAL APPROVAL | DATE |
|--------------------|----------------|------|
| Marketing          |                |      |
| Regulatory Affairs |                |      |

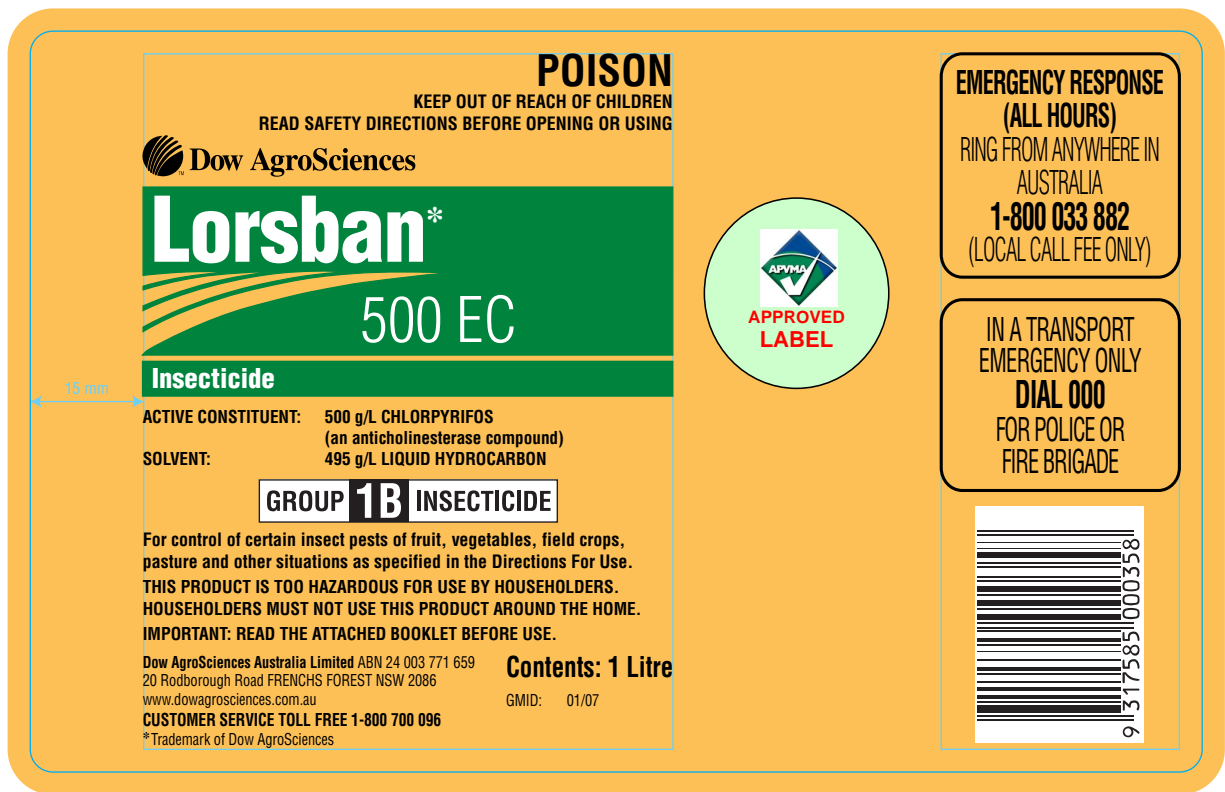
**BLACK**

**PMS 136**

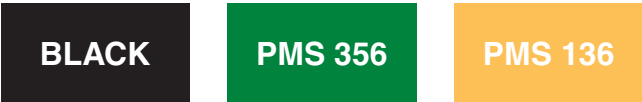
Artwork is at 100%



**THE WORKHOUSE  
VISUAL COMMUNICATIONS**  
PTY. LTD. ABN 36 051 781 607  
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NEUTRAL BAY NSW 2089  
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FACSIMILE: (02) 9953 5492



1L front base label: 98 mm (h) x 155 mm (w)



Artwork is at 100%

Workhouse job #: DE13021

Artwork revision date: 09/01/07



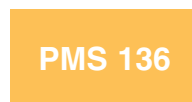
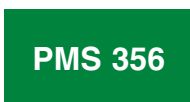
|   |                       |             |
|---|-----------------------|-------------|
| <b>PACKAGING ARTWORK: Lorsban 500 EC 1 L - Front Base label</b> |                       |             |
| <b>APVMA APPROVAL #: 32887/1/0107</b>                           |                       |             |
|   | <b>FINAL APPROVAL</b> | <b>DATE</b> |
| Marketing   |                       |             |
| Regulatory Affairs  |                       |             |



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5L Front label - Top: 170 mm (h) x 140 mm (w)



Artwork is at 100%

Workhouse job #: DE13021

Artwork revision date: 12/01/07



PACKAGING ARTWORK: Lorsban 500 EC 5 L - Front Top label

APVMA APPROVAL #: 32887/5/0107

|                    | FINAL APPROVAL | DATE |
|--------------------|----------------|------|
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### STORAGE AND DISPOSAL

Store in closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. DO NOT store near food, feedstuffs, fertilisers or seed. 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. 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.

### SMALL SPILL MANAGEMENT

Wear protective equipment (see SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, cat litter or clay granules to the spill. Sweep up material when absorption is completed and contain in a refuse vessel for disposal in the same manner as for containers (see STORAGE AND DISPOSAL section). If spilled inside a building wash contaminated surfaces to deactivate the chlorpyrifos with a solution of bleach (sodium hypochlorite) prepared according to the bleach label instructions.

### SAFETY DIRECTIONS

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- Repeated exposure may cause allergic disorders.
- Repeated minor exposure may have a cumulative poisoning effect.
- Obtain an emergency supply of atropine tablets 0.6 mg
- Will irritate eyes and skin
- Avoid contact with eyes and skin.
- Do not inhale vapour or spray mist.
- When opening the container, preparing the spray or bait, using the prepared spray or bait, wear chemical resistant clothing buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves, goggles, impervious footwear and half face piece respirator with combined dust and gas cartridge.
- If product on skin, immediately wash area with soap and 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, contaminated clothing and if rubber wash with detergent and warm water.

### FIRST AID

- If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone: Australia 13 11 26) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed.

- If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

### MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet for **LORSBAN 500 EC INSECTICIDE** which is available on request from Dow AgroSciences. Call Customer Service Toll Free on 1-800 700 096 or visit [www.dowagrosciences.com.au](http://www.dowagrosciences.com.au)

### NOTICE

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Made in New Zealand

APVMA Approval No: 32887/5/0107

GMD: 281446 01/07

UN No. 3018  
PESTICIDES  
ORGANOPHOSPHORUS,  
LIQUID, TOXIC, N.O.S.  
PKG III  
HAZCHEM 2X

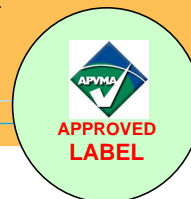


EMERGENCY RESPONSE  
(ALL HOURS)  
RING FROM ANYWHERE IN  
AUSTRALIA  
**1800 033 882**  
(LOCAL CALL FEE ONLY)

IN A TRANSPORT  
EMERGENCY ONLY  
**DIAL 000**  
FOR POLICE OR  
FIRE BRIGADE



D.O.M./Batch No:



5L back label: 170 mm (h) x 140 mm (w)

BLACK

PMS 136

Artwork is at 100%

Workhouse job #: DE13021

Artwork revision date: 12/01/07



PACKAGING ARTWORK: Lorsban 500 EC 5 L - Back label

APVMA APPROVAL #: 32887/5/0107

|                    | FINAL APPROVAL | DATE |
|--------------------|----------------|------|
| Marketing          |                |      |
| Regulatory Affairs |                |      |



workhouse

THE WORKHOUSE  
VISUAL COMMUNICATIONS

PTY. LTD. ABN 36 051 781 607  
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NEUTRAL BAY NSW 2089  
POST OFFICE BOX 17  
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FACSIMILE: (02) 9953 5492



5L Front label - Base: 168 mm (h) x 115 mm (w)

**BLACK**

Artwork is at 100%

Workhouse job #: DE13021

Artwork revision date: 12/01/07



**PACKAGING ARTWORK:** Lorsban 500 EC 5 L - Front Base label

**APVMA APPROVAL #:** 32887/5/0107

|                    | FINAL APPROVAL | DATE |
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POISON

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



  
**APVMA  
APPROVED  
LABEL**

Lorsban\*

500 EC

Insecticide

15 mm

**ACTIVE CONSTITUENT:** 500 g/L CHLORPYRIFOS (an anticholinesterase compound)  
**SOLVENT:** 495 g/L LIQUID HYDROCARBON

25 mm

GROUP 1B INSECTICIDE

For control of certain insect pests of fruit, vegetables, field crops, pasture and other situations as specified in the Directions For Use.

**THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.  
HOUSEHOLDERS MUST NOT USE THIS PRODUCT AROUND THE HOME.**

**IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USE.**

Dow AgroSciences Australia Limited ABN 24 003 771 659  
 20 Rodborough Road FRENCHS FOREST NSW 2086  
 www.dowagrosciences.com.au

**CUSTOMER SERVICE TOLL FREE 1-800 700 096**

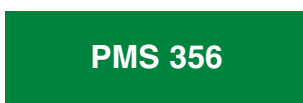
\*Trademark of Dow AgroSciences

**Contents: 20 Litres**

GMID: 281411 01/07

▲ LIFT FOR FULL INSTRUCTIONS

20L White Top: 190 mm (h) x 200 mm (w)



Artwork is at 100%

Workhouse job #: DE13021  
 Artwork revision date: 12/01/07



|   |                       |             |
|---|-----------------------|-------------|
| <b>PACKAGING ARTWORK:</b> Lorsban 500 EC 20 L - Front Top label |                       |             |
| <b>APVMA APPROVAL #:</b> 32887/20/0107                          |                       |             |
|   | <b>FINAL APPROVAL</b> | <b>DATE</b> |
| Marketing   |                       |             |
| Regulatory Affairs  |                       |             |



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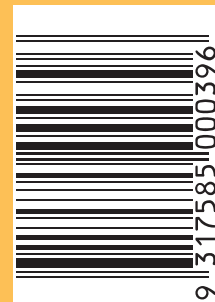
Made in New Zealand

UN No. 3018  
**PESTICIDES ORGANOPHOSPHORUS,  
 LIQUID, TOXIC, N.O.S. PKG III  
 HAZCHEM 2X**



**EMERGENCY RESPONSE  
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 RING FROM ANYWHERE IN  
 AUSTRALIA  
 1800 033 882  
 (LOCAL CALL FEE ONLY)**

**IN A TRANSPORT  
 EMERGENCY ONLY  
 DIAL 000  
 FOR POLICE OR  
 FIRE BRIGADE**



APVMA Approval No: 32887/20/0107  
 GMID: 281445 01/07  
 D.O.M./Batch No:

20 back label: 190 mm (h) x 200 mm (w)



Artwork is at 100%

Workhouse job #: DE13021  
 Artwork revision date: 12/01/07




|  |                       |             |
|--|-----------------------|-------------|
| <b>PACKAGING ARTWORK: Lorsban 500 EC 20 L - Back label</b> |                       |             |
| <b>APVMA APPROVAL #: 32887/20/0107</b>                     |                       |             |
|  | <b>FINAL APPROVAL</b> | <b>DATE</b> |
| Marketing  |                       |             |
| Regulatory Affairs   |                       |             |



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

 **Dow AgroSciences**

**Lorsban\***

**500 EC**

  
**APVMA**  
**APPROVED LABEL**

**Insecticide**

**ACTIVE CONSTITUENT:** 500 g/L CHLORPYRIFOS (an anticholinesterase compound)  
**SOLVENT:** 495 g/L LIQUID HYDROCARBON

GROUP **1B** INSECTICIDE

For control of certain insect pests of fruit, vegetables, field crops, pasture and other situations as specified in the Directions For Use.

**THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.  
HOUSEHOLDERS MUST NOT USE THIS PRODUCT AROUND THE HOME.**

**IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USE.**

**Dow AgroSciences Australia Limited** ABN 24 003 771 659  
 20 Rodborough Road FRENCHS FOREST NSW 2086  
 www.dowagrosciences.com.au

**CUSTOMER SERVICE TOLL FREE 1-800 700 096**

\*Trademark of Dow AgroSciences

**Contents: 20 Litres**  
GMID: 281411 01/07

20 L Front label - Base: 188 mm (h) x 199 mm (w)



Artwork is at 100%

Workhouse job #: DE13021  
 Artwork revision date: 12/01/07



**PACKAGING ARTWORK:** Lorsban 500 EC 20 L - Front Base label

**APVMA APPROVAL #:** 32887/20/0107

|                    | FINAL APPROVAL | DATE |
|--------------------|----------------|------|
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| Regulatory Affairs |                |      |



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**POISON**

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



**Lorsban\***

**500 EC**

**Insecticide**

**ACTIVE CONSTITUENT:** 500 g/L CHLORPYRIFOS (an anticholinesterase compound)  
**SOLVENT:** 495 g/L LIQUID HYDROCARBON

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GMID: 281411 01/07



**DIRECTIONS FOR USE****FRUIT and VEGETABLES**

| CROPS           | INSECT   | STATE                 | RATE  |   | WITHHOLDING PERIODS | CRITICAL COMMENTS   |
|-----------------|--|-----------------------|---|---|---------------------|---|
|                 |  |                       | VOL/HA  | VOL/100 L WATER   |                     |   |
| Apples<br>Pears | San Jose scale   | Qld, NSW, SA, WA only | Not applicable  | 100 mL (2% miscible winter oil may be added to the dormant spray) | 14 days             | <b>Dormant period:</b> Apply as late as possible ensuring thorough coverage of all branches.<br><b>Seasonal period:</b> Apply to coincide with crawler activity in mid-late November and later as necessary. Ensure thorough coverage of all branches, foliage and fruit. |
|                 | Woolly aphid   |                       |   |   |                     | Apply when infestation build-up is first noticed ensuring thorough coverage.  |
|                 | Wingless grasshopper   | NSW only              | 500 mL  | 50 mL   |                     | Apply to areas of crop infested with grasshoppers. Also apply as a barrier across the line of advance, when grasshoppers are invading the crop.   |
| Avocado         | Avocado leafroller<br>Ivy leafroller   | Qld only              | 1 or 2 L  | 50 or 100 mL  | 7 days              | Use this rate in tank mix with 1 L/ha (500 mL /100 L of water) of dichlorvos (500 g/L). For low volume spray equipment use L/ha rate. Apply at first sign of pest activity before larvae move to fruit. Use higher rate when populations are high.                        |
|                 | Ivy leafroller   | NSW only              |   |   |                     | Apply at first sign of pest activity before larvae move to fruit. Use higher rate when populations are high. For low volume spray equipment use L/ha rate.  |
|                 | Latania scale<br>Hairy caterpillars<br>Light brown apple moth<br>Redshouldered leaf beetle |                       |   |   |                     | Apply when populations indicate treatment is required. Spot spray affected trees only. Repeat as necessary. Use higher rate when populations are high.  |
| Bananas         | Banana scab moth   | Qld only              | <b>Aerial:</b><br>1 or 2 L in a minimum of 10 L water | 200 mL<br>Apply a minimum of 500 L water/ha                       | 14 days             | Apply from the first appearance of flower bell and repeat as populations indicate until fingers are exposed. Use high rate with onset of wet weather and/or heavy insect pressure.<br><b>Note:</b> Burning of young fruit may occur under poor drying conditions.         |

**FRUIT and VEGETABLES (continued)**

| CROPS                  | INSECT                | STATE                 | RATE           |   | WITHHOLDING PERIODS | CRITICAL COMMENTS   |
|------------------------|-----------------------|-----------------------|----------------|---|---------------------|---|
|                        |                       |                       | VOL/HA         | VOL/100 L WATER   |                     |   |
| Bananas<br>(continued) | Banana weevil borer   | Qld, NSW only         | Not applicable | 1 or 1.8 L  | 14 days             | After removal of trash, apply 500-700 mL of spray depending on butt size, to the lower 30 cm of the butt and to the surrounding soil within a radius of 30 cm, ensuring thorough coverage of butt and suckers. <b>Sub-tropical areas:</b> Use high rate for annual control of borers. <b>Tropical areas:</b> Use high rate in September-November for initial spray and a follow-up with low rate in February-April should insect presence warrant a second application. |
|                        | Caterpillars          | NSW only              | Not applicable | 200 mL  |                     | Apply from the first appearance of flower bell and repeat as populations indicate until fingers are exposed. Use as ground application only, do not apply by air.   |
| Carrots                | Lightbrown apple moth | NSW, WA only          | 500 or 700 mL  | Not applicable  | Not applicable      | Apply when moths are first detected. Repeat at the higher rate if there is a re-occurrence of infestation.  |
| Cassava                | Cutworms              | Qld only              | 700 mL         |   |                     | Apply to seedlings and soil at base of seedlings, when cutworm activity is observed.  |
| Citrus                 | California red scale  | NSW, Vic, SA, WA only | Not applicable | 100 mL alone or 50 mL + 1 L miscible summer spraying oil  | 14 days             | Apply during November-March period. Two sprays may be required under conditions of heavy scale infestation. Apply with high volume sprayer to point of runoff.<br><b>Note:</b> Do not use on citrus in areas where integrated control programmes are in operation.  |
|                        |                       | Qld only              |                | 100 mL alone or 100 mL + 1 L miscible summer spraying oil |                     |   |
| Citrus Pome fruit      | Wingless grasshopper  | Vic, Tas, SA only     | 500 mL         | 50 mL   |                     | Spray areas of crop infested with grasshoppers. Also apply as a barrier across the line of advance, when grasshoppers are invading the crop.  |

## FRUIT and VEGETABLES (continued)

| CROPS  | INSECT   | STATE                      | RATE             |                      | WITHHOLDING PERIODS  | CRITICAL COMMENTS   |
|--|--|----------------------------|------------------|----------------------|--|---|
|  |  |                            | VOL/HA           | VOL/100 L WATER      |  |   |
| Cole crops including, Cabbage, Cauliflower, Brussels sprouts, Broccoli | Cabbage moth<br>Cabbage white butterfly<br>Cabbage aphid<br>Cluster caterpillar<br>Cabbage cluster caterpillar | NSW, Vic, Tas, SA, WA only | 1.5 or 2 L       | 150 or 200 mL        | 5 days   | Spray at 10 to 14 day intervals. Use high rate under heavy pest pressure.<br><b>Large plants:</b> Use 1000 L of spray/ha. To improve spray coverage add non-ionic wetting agents as recommended.  |
|  | Corn earworm<br>Native budworm   | Qld only                   | 1.5 L            | 150 mL               |  | Apply when pests first appear.<br><b>Large plants:</b> Use 1000 L of spray/ha.  |
|  | Corn earworm   | NSW, Vic, SA, WA only      | 1.5 or 2 L       | 150 or 200 mL        | Apply at 10 to 14 day intervals. Use high rate under heavy pest pressure.<br><b>Large plants:</b> Use 1000 L of spray/ha.                                |   |
|  | Native budworm   | NSW, Vic, Tas, SA, WA only |                  |                      | Apply at 10 day intervals commencing when pests first appear. Apply at 7 day intervals under heavy pest pressure.<br><b>Large plants:</b> Use 1000 L/ha. |   |
|  | Wingless grasshopper   | NSW, Vic, Tas, SA only     | 500 mL           | 50 mL                | Spray areas of crop infested with grasshoppers. Also apply as a barrier across the line of advance, when grasshoppers are invading the crop.             |   |
|  | Redlegged earth mite<br>Blue oat mite  | NSW only                   | 140 or 300 mL    | Not applicable       | Use higher rate for severe infestations. Headlands and vegetation surrounding the crop may also need to be sprayed.                                      |   |
| Cabbage<br>Cauliflower   | African black beetle   | NSW only                   | 2 L (Boom spray) | 300 mL (Drench)      | 5 days   | <b>Boom spray:</b> Apply in 500 - 1000 L of water/ha at or soon after planting as a 10 - 15 cm band spray.<br><b>Drench:</b> Apply 100 mL of diluted spray to base of each plant. Treat as soon as the first signs of infestation are observed.<br><b>Note:</b> If attack is prolonged follow up boom spray or drench treatment may be necessary. |
| Cucurbits  | White flies  | NSW only                   | Not applicable   | 50 mL/100 L of water |  | Apply when pest is first detected. If required repeat applications every 10 to 14 days.   |
| Ginger   | Cutworms   | Qld only                   | 700 - 900 mL     | Not applicable       |  | Not applicable  |

## FRUIT and VEGETABLES (continued)

| CROPS       | INSECT  | STATE                           | RATE           |  | WITHHOLDING PERIODS                            | CRITICAL COMMENTS  |
|-------------|---|---------------------------------|----------------|--|--|--|
|             |   |                                 | VOL/HA         | VOL/100 L WATER  |  |  |
| Grape vines | Light brown apple moth  | All States                      | 500 mL         | 50 mL  | 14 days  | Apply initial spray just after berry set (early October). Later schedule sprays should be made as required.  |
|             | Grapevine moth  | Qld, NSW only                   |                |  |  |  |
|             | Grapevine scale   | Tas, SA, WA only                | Not applicable | 100 mL alone or 50 mL + 1 L miscible winter oil  | Apply as a dormant spray, post-pruning (July). |  |
| Kiwi fruit  | Common armyworm<br>Southern armyworm<br>Lightbrown apple moth | NSW, Vic, WA, SA, Tas, Qld only | 1 L            | 50 mL  |  | Apply at green tip at least 10 days after dormant lime sulphur application and pre-blossom. Do not apply post blossom.   |
| Mango       | Common mango scale  | Qld only                        | Not applicable | 100 mL   | 21 days  | Apply to coincide with crawler activity. Ensure thorough coverage of all branches, foliage and fruit.  |
| Pineapples  | Pineapple mealybug<br>Ants                                    | Qld only                        | Not applicable | 50 or 100 mL   | Not applicable                                 | Apply when pests are first seen and repeat at 90 day intervals or as necessary. Use a minimum of 3000 L of spray/ha. Use higher rate under heavy pest pressure.      |
|             | White grubs   |                                 | 5 L            | Not applicable   |  | Apply as a pre-plant spray to a freshly cultivated soil surface. Incorporate immediately by rotary hoeing to a depth of 10-20 cm.                                    |
| Potatoes    | African black beetle  | NSW, WA only                    | 3 or 6 L       | Not applicable   | Not applicable                                 | Apply the spray to the soil immediately prior to planting, ensuring thorough immediate incorporation to a depth of 15 cm. Use higher rate under heavy pest pressure. |
|             |   |                                 | 900 mL         |  |  | Apply as a second spray as bands on either side of plants at final hilling-up. Ensure good incorporation of the spray immediately into the soil in the hill.         |
|             | Whitefringed weevil   | NSW, Vic, WA only               | 6 L            | Apply pre-plant and incorporate into the soil immediately after application              |  |  |
|             |   | WA, NSW only                    | 1 L            | Apply at hilling-up or 7 weeks after planting as a follow-up to pre-plant incorporation. |  |  |



## FRUIT and VEGETABLES (continued)

| CROPS                               | INSECT                                | STATE                  | RATE   |   | WITHHOLDING PERIODS | CRITICAL COMMENTS  |
|-------------------------------------|---------------------------------------|------------------------|--|---|---------------------|--|
|                                     |                                       |                        | VOL/HA   | VOL/100 L WATER   |                     |  |
| Potatoes<br>(continued)             | Wireworms                             | Vic only               | 6 L  | Not applicable  | Not applicable      | Apply as a band spray to the soil surface incorporating immediately. Use before planting in areas where wireworms are a known problem.   |
| Silver beet                         | Redlegged earth mite<br>Blue oat mite | NSW only               | 140 or 300 mL  |   |                     | Use higher rate for severe infestations. Headlands and vegetation surrounding the crop may also need to be treated.  |
| Stone fruit<br>(excluding cherries) | European earwig                       | NSW only               | 2 L  | 100 mL  | 14 days             | <b>Spray application:</b> Apply in a minimum of 2000 L/ha in spring. If lower volume used increase concentration to apply 2 L of product/ha.   |
|                                     |                                       |                        | 200 mL + 250 mL sunflower oil/5 kg cracked wheat or cracked sorghum bait |   |                     |   |
|                                     | San Jose scale                        | Qld, WA, NSW only      | Not applicable   | 100 mL (2% miscible winter oil may be added to the dormant spray) |                     | <b>Dormant period:</b> Apply as late as possible ensuring thorough coverage of all branches.<br><b>Seasonal period:</b> Apply to coincide with crawler activity in mid-late November and later if necessary. Ensure thorough coverage of all branches, foliage and fruit.<br><b>Note:</b> Some fruit marking may occur if high volume spraying is carried out under hot, dry conditions. |
| Strawberries                        | Field crickets<br>Mole crickets       | Qld only               | 100 mL/<br>10 kg bran bait/ha  | Not applicable  | Not applicable      | Apply in recently ratooned strawberry patches or newly planted runners when damage or pest populations indicate. Broadcast, preferably in the late afternoon, to base of plants and inter-row space. See GENERAL INSTRUCTIONS on preparation of bran baits.  |
| Tomatoes                            | Tomato grubs                          | Qld, NSW, Vic, WA only | 1.5 or 2 L   | 150 or 200 mL   | 3 days              | Spray on 7 to 10 day schedule commencing at flowering. Use high rate under heavy pest pressure.  |
|                                     | Native budworm                        | Tas only               |  |   |                     |  |
|                                     | Green vegetable bug                   | Tas, SA, WA only       |  |   |                     | Spray at first sign of bug activity. Use higher rate under heavy pest pressure.  |

## FRUIT and VEGETABLES (continued)

| CROPS   | INSECT                          | STATE                      | RATE                           |                 | WITHHOLDING PERIODS         | CRITICAL COMMENTS  |
|---|---------------------------------|----------------------------|--------------------------------|-----------------|-----------------------------|--|
|   |                                 |                            | VOL/HA                         | VOL/100 L WATER |                             |  |
| Tomatoes<br>(continued)   | Green peach aphid               | Qld, Vic, Tas, SA, WA only | 1 L                            | 100 mL          | 3 days                      | Spray when aphids are seen.<br><b>Large plants:</b> Use 1000 L/ha  |
|   | Wingless grasshopper            | NSW, Vic, Tas, SA only     | 500 mL                         | 50 mL           |                             | Spray areas of crop infested with grasshoppers. Also apply as a barrier across the line of advance, when grasshoppers are invading the crop.   |
|   | Wireworm<br>False wireworm      | Qld only                   | 5 L/ha sprayed                 | Not applicable  | Not applicable              | Apply as a band at least 10 cm wide into the open furrow at planting. Spray the entire furrow width using a nozzle directly behind the planting tyne. Use a minimum spray volume of 20 L/ha. See GENERAL INSTRUCTIONS on soil application.   |
|   | African black beetle            | NSW only                   | 2 L (Boom spray)               | 300 mL (Drench) |                             | <b>Boom spray:</b> Apply in 500-1000 L of water/ha at or soon after planting as a 10-15 cm band spray.<br><b>Drench:</b> Apply 100 mL of diluted spray to base of each plant. Treat as soon as first sign of infestation is noticed.<br><b>Note:</b> If attack is prolonged follow up boom spray or drench treatment may be necessary. |
| Vegetables<br>Including;<br>Asparagus<br>Beans<br>Beetroot<br>Broccoli<br>Brussels sprouts<br>Cabbage<br>Cauliflower<br>Capsicum<br>Carrot<br>Celery<br>Eggplant<br>Onion<br>Peas<br>Potato<br>Radish<br>Rhubarb<br>Shallot<br>Sweet potato<br>Tomato<br>Turnip | Wingless grasshopper            | NSW, Vic, Tas only         | 500 mL                         | 50 mL           | <b>Tomatoes</b><br>3 days   | Spray areas of crop infested with grasshoppers. Also apply as a barrier across the line of advance, when grasshoppers are invading the crop.   |
|   | Cutworms                        | All States                 | 700 mL                         | 70 mL           | <b>Cole crops</b><br>5 days | Apply immediately infestation is observed. Increase concentration to compensate if application is below 1000 L/ha. Spray should cover soil out to at least 20 cm on both sides of row crop.  |
|   | Field crickets<br>Mole crickets | Qld only                   | 100 mL /<br>10 kg bran bait/ha | Not applicable  | <b>Asparagus</b><br>14 days | Apply as pest populations indicate. See GENERAL INSTRUCTIONS on preparation of bran baits.   |
|   | Vegetable weevil                | NSW only                   | 800 mL                         | Not applicable  | <b>Celery</b><br>14 days    | Apply immediately infestation is observed. Apply as a band over the young plants and adjacent soil along the row. One treatment should be sufficient if plants are sprayed at the seedling stage or soon afterwards.   |

## FIELD CROPS and PASTURE

| CROPS   | INSECT  | STATE                  | VOL/HA                             | WITHHOLDING PERIODS                                       | CRITICAL COMMENTS   |
|---|---|------------------------|------------------------------------|---|---|
| Cereals<br>Pasture<br>Forage crops              | Southern armyworm<br>Common armyworm                      | All States             | 700 or 900 mL                      | <b>Cereals</b><br>10 days<br><br><b>Grazing</b><br>2 days | Spray over total crop area when infestation is widespread. When pests are moving as an "army" treat a broad strip over and in advance of the infestation.<br><b>Late stage instar:</b> Use higher rate when larvae 3 cm in length. Apply follow-up treatment as required. |
| Cereals   | Pasture webworm   | NSW, Vic, Tas, SA only | 700 mL                             |   | Spray at first sign of damage. Apply with ground-rig boom or mister or by air.  |
|   |   | WA only                | 300 mL                             |   | <b>Pre-plant:</b> Apply with the label rate of an approved tillage herbicide to foliage prior to any cultivation.<br><b>Post-emergence:</b> Apply at first sign of damage. Apply with ground-rig boom or mister or by air.  |
| Cereals<br>Pasture young plants<br>of oil seeds | Cutworms  | Qld, NSW, Tas, WA only | 900 mL in a minimum of 100 L water |   | Apply immediately infestation is observed. Apply follow-up treatments as required.  |
|   |   | Vic only               | 700 mL in a minimum of 100 L water |   |   |
| Cereals<br>Pasture<br>Oil seeds                 | Cutworms<br>( <i>Agrotis munda</i> and <i>A. infusa</i> ) | SA only                |                                    |   |   |
| Cereals   | Cereal curculio   | SA, WA only            | 120 mL/<br>100 kg seed             | Not applicable  | <b>Apply as a seed dressing</b> just prior to sowing through an accurately calibrated applicator.<br><b>Note:</b> A sowing rate of 95 kg/ha (min.) is necessary to ensure economic responses are achieved.  |
| Cereals<br>Pasture<br>Forage crops              | Spur-throated locust                                      | Qld, NSW, Vic, WA only | 1.25 or 1.5 L                      | <b>Cereals</b><br>10 days<br><br><b>Grazing</b><br>2 days | Spray areas of crop or pasture infested with locusts. Apply spray to trees or roosting sites to control swarming adult locusts.<br><b>Late stage hoppers and adults:</b> Use higher rate.   |
|   | Australian plague locust                                  | Vic only               | 560 mL                             |   | <b>Adults:</b> Spray areas of crop or pasture infested with locusts.<br><b>Hoppers:</b> Spray a swath in advance of marching band and then spray along the dense marching front. Continue spraying until all hoppers have been contacted.                                 |
|   |   | SA only                | 350 mL                             |   |   |
|   |   | Qld, NSW, WA only      | 560 mL                             |   |   |
|   |   | Qld, NSW, WA only      | 350 mL                             |   |   |
|   | Migratory locust  | Qld only               |                                    |   | Spray areas of crop, trees and roosting sites infested with locusts.  |

## FIELD CROPS and PASTURE (continued)

| CROPS   | INSECT  | STATE                                    | VOL/HA   | WITHHOLDING PERIODS                                       | CRITICAL COMMENTS  |
|---|---|--|--|---|--|
| Cereals<br>Pasture<br>Forage crops<br>(continued)   | Blue oat mite<br>Redlegged earth mite<br>Lucerne flea | All States<br>NSW, Vic, WA, SA, Tas only | 140 mL<br>70 mL  | <b>Cereals</b><br>10 days<br><br><b>Grazing</b><br>2 days | Spray when pests appear in large numbers, 3-6 weeks after autumn rains. Re-spray as necessary. Avoid spraying when pests are sheltering. Spray when at least 2.5 cm cover of pasture or crop is present. <b>DO NOT</b> spray if rain is imminent.                          |
| Cereals<br>Pasture<br>Oil seeds   | Wingless grasshopper                                  | NSW, Vic, Tas, SA only                   | 500mL  |   | Spray area of crop or pasture infested with grasshoppers. Apply also as a barrier across the line of advance, when grasshoppers are invading the crop.   |
| Field Peas<br>Broad beans<br>Chickpeas<br>Lupins<br>Lucerne<br>Lucerne pastures<br>Clover seed crops<br>Rapeseed<br>Linseed<br>Safflower<br>Wheat<br>Oats<br>Barley<br>Rye<br>Triticale<br>Improved annual pastures<br>Established perennial pastures | Blue oat mite<br>Redlegged earth mite                 | NSW only                                 | 140-300 mL   |   | Apply as a ground spray immediately prior to seedling emergence using sufficient water to give good coverage. If mite activity is severe also spray headlands and surrounding vegetation prior to seedling emergence.  |
| Cotton<br>(young plants)  | Cutworms<br><br>Southern armyworm<br>Common armyworm  | Qld, NSW only                            | 900 mL in a minimum of 100 L water<br>700 mL or 900 mL | <b>Cotton</b><br>4 weeks<br><br><b>Grazing</b><br>4 weeks | Apply immediately infestation is observed. Apply follow-up treatments as required.   |
|   | Pink spotted bollworm moth                            | Qld only                                 | 1 L  |   | Spray over total crop area when infestation is widespread. When pests are moving as an "army" treat a broad strip over and in advance of the infestation.<br><b>Late stage instar:</b> Use higher rate when larvae 3 cm in length. Apply follow-up treatments as required. |
|   |   |  |  |   | Apply when 10-15 moths are trapped on two consecutive nights. This prevents infestation of bolls by larvae.  |



## FIELD CROPS and PASTURE (continued)

| CROPS  | INSECT   | STATE         | VOL/HA   | WITHHOLDING PERIODS                                       | CRITICAL COMMENTS  |
|--|--|---------------|--|---|--|
| Cotton<br>(young plants)<br>(continued)                      | Spur-throated locusts                            | Qld, NSW only | 1.25 or 1.5 L  | <b>Cereals</b><br>10 days<br><br><b>Grazing</b><br>2 days | Spray areas of crop infested with locusts. Apply spray to trees or roosting sites to control swarming adult locusts.<br><b>Late stage instar:</b> Use higher rate. |
|  | Wingless grasshopper                             |               | 500 mL   |   | Spray areas of crop infested with grasshoppers. Apply also as a barrier across the line of advance, when grasshoppers are invading the crop.                       |
|  | Cotton aphid                                     |               | 300 or 400 mL  |   | Apply when pests first appear. Re-spray as indicated by field inspection. Use higher rate for higher populations.  |
|  | Cotton flea beetles<br>Redshouldered leaf beetle |               | 900 mL or 1.5 L  |   | Apply when pests are present. Use higher rate under heavy pest pressure.   |
|  | Springtails                                      |               | 300 mL   |   | Spray when large numbers of pests occur and damage is evident. Re-spray as necessary.  |
|  | Migratory locust                                 |               | Qld only   |   | 350 mL   |
|  | Wireworm<br>False wireworm                       | Qld, NSW only | <b>In-furrow:</b><br>5 to 15 mL/<br>100 m row or<br>500 mL to<br>1.5 L/ha for row<br>spacing of<br>1 metre |   | Use higher rate with extreme population numbers.<br>See GENERAL INSTRUCTIONS on soil application.  |
|  | Lucerne<br>(young plants)                        | Cutworms      | Qld, NSW, Tas,<br>WA only  |   | 900 mL in a<br>minimum of<br>100 L water   |
| Vic only   |  |               | 700 mL in a<br>minimum of<br>100 L water   |   |  |
| Cutworms<br>( <i>Agrotis munda</i><br>and <i>A. infusa</i> ) |  | SA only       |  |   |  |



**APPROVED  
LABEL**

## FIELD CROPS and PASTURE (continued)

| CROPS   | INSECT  | STATE                          | VOL/HA   | WITHHOLDING PERIODS      | CRITICAL COMMENTS   |
|---|---|--------------------------------|--|--------------------------|---|
| Lucerne   | Webspinner caterpillar                          | Qld, NSW only                  | 700 mL   | <b>Grazing</b><br>2 days | Spray when pests appear.  |
|   | Lucerne leafroller                              |                                | 300 or<br>400 mL   |                          | Apply when pests first appear.<br><b>Late stage instar:</b> Use higher rate when larvae 1.5 cm in length are present and /or under heavy pest pressure.       |
| Lucerne and<br>Medics in<br>Pasture and<br>Forage crops | Spotted alfalfa aphid                           | NSW only                       | 200 or 300 mL  |                          | Spray when aphids first appear. Use the higher rate when large numbers of aphids are invading the crop.   |
|   | Bluegreen aphid                                 | Qld, Vic, Tas,<br>SA, WA only  |  |                          | <b>Seedling lucerne, medics:</b> Apply when 1-2 aphids/plant are observed.<br><b>Established lucerne, medics:</b> Apply when 20-40 aphids/stem are observed.  |
|   | Pea aphid                                       | Qld, NSW, Vic,<br>Tas, SA only |  |                          |   |
|   | Sitona weevil                                   | NSW, Vic, Tas,<br>SA only      |  |                          | 350 mL  |
| Maize   | African black beetle                            | NSW only                       | 20 mL/100 m<br>row or 2 L/ha<br>for row spacing<br>of 1 metre  | Not applicable           | Apply at sowing as a 15-20 cm band spray. For best results spray nozzles should be in front of press wheels on planter. Press wheels assist in establishment. |
| Maize<br>Soybeans<br>Sunflower                          | False wireworm<br>Cockroaches<br>Field crickets | Qld only                       | 100 mL +<br>125 mL<br>sunflower oil<br>/2.5 kg cracked<br>wheat or<br>cracked<br>sorghum bait/ha           |                          | Apply at planting of crop.<br>See GENERAL INSTRUCTIONS on preparation of cracked wheat or sorghum bait.   |
| Maize<br>Sunflower                                      | Wireworm<br>False wireworm                      | Qld, NSW only                  | <b>In-furrow:</b><br>5 to 15 mL/<br>100 m row or<br>500 mL to<br>1.5 L/ha for row<br>spacing of<br>1 metre |                          | Use higher rate with extreme population numbers.<br>See GENERAL INSTRUCTIONS on soil application.   |

## FIELD CROPS and PASTURE (continued)

| CROPS                | INSECT                               | STATE                      | VOL/HA                             | WITHHOLDING PERIODS   | CRITICAL COMMENTS   |
|----------------------|--------------------------------------|----------------------------|------------------------------------|---|---|
| Pasture              | Lawn armyworm                        | Qld, NSW only              | 700 mL                             | <b>Grazing</b><br>2 days  | Spray over total crop area when infestation is widespread. When pests are moving as an "army" treat a broad strip over and in advance of the infestation. Apply follow-up treatments as required.   |
|                      | Sod webworm                          | Qld only                   |                                    |   | Spray as early as possible once pests appear. Apply with ground-rig boom or mister. Re-spray as necessary.  |
|                      | Blackheaded pasture cockchafer       | NSW, Vic, Tas, SA, WA only | 900 mL                             |   | Treat when larvae are actively foraging as indicated by numerous piles of fresh soil, or casts on the surface. This usually occurs after showers of rain following short dry spells. Apply by ground-rig boom.  |
| Pasture Forage crops | Underground grass grub               | NSW, Vic, SA, WA only      |                                    |  | Apply when caterpillars are actively feeding. Spray before noticeable damage has occurred. Graze pasture prior to spraying to ensure penetration of spray into the pasture sward.   |
|                      | Brown pasture looper                 | NSW, Vic, Tas, SA, WA only | 700 mL                             |   | Spray at first sign of pasture infestation.   |
|                      | Pasture webworm                      |                            |                                    |   | Spray at first sign of damage. Apply with ground-rig boom or mister or by air.  |
| Rapeseed             | Wireworm<br>False wireworm           | Qld only                   | 1 or 1.5 L/ha                      | Not applicable  | Apply as a broadcast application. Use higher rate with extreme population numbers. See GENERAL INSTRUCTIONS on soil application.  |
| Rice                 | Bloodworm                            | NSW only                   | 60 or 150 mL                       | 10 days   | Use higher rate when water more than 15 cm or amount of decaying plant material is high.  |
|                      | Brown planthopper                    | Qld only                   | 1.5 L                              |   | Apply when pest numbers reach 1-2 per tiller and repeat as necessary.   |
| Sorghum              | Southern armyworm<br>Common armyworm | Qld, NSW only              | 700 or 900 mL                      | 2 days  | Spray over total crop area when infestation is widespread. When pests are moving as an "army" treat a broad strip over and in advance of the infestation. <b>Late stage instar:</b> Use higher rate when larvae 3 cm in length. Apply follow-up treatments as required. |
|                      | Cutworms                             |                            | 900 mL in a minimum of 100 L water |   | Apply immediately infestation is observed. Apply follow-up treatments as required.  |



## FIELD CROPS and PASTURE (continued)

| CROPS  | INSECT  | STATE         | VOL/HA  | WITHHOLDING PERIODS  | CRITICAL COMMENTS   |
|--|---|---------------|---|--|---|
| Sorghum<br><br><b>Note: (DO NOT use on Sugar Drip or Alpha sorghum. Check new varieties before applying to entire crop). (continued)</b> | Spur-throated locust                            | Qld, NSW only | 1.25 or 1.5 L   | 2 days   | Spray areas of crop infested with locusts. Apply spray to trees or roosting sites to control swarming adult locusts. <b>Late stage instar:</b> Use higher rate.   |
|  | Australian plague locust                        |               | 350 mL  |  | <b>Adults:</b> Spray areas of crop infested with locusts. <b>Hoppers:</b> Spray a swath in advance of marching band and the dense marching front. Continue spraying until all hoppers have been contacted.  |
|  | Migratory locust                                | Qld only      |   |  | Spray all areas of crop, trees and roosting sites infested with locusts.  |
|  | Sorghum midge                                   | Qld, NSW only | 500 mL  |  | Check regularly (preferably in the morning) and apply when 1-2 midge per head are present from first emergence of boot to pollen shedding. With repeated attack spray at intervals of 5 days or less.   |
|  | Wireworm<br>False wireworm                      |               |   | <b>In-furrow:</b><br>5 to 15 mL/<br>100 m row or<br>500 mL to<br>1.5 L/ha for row<br>spacing of<br>1 metre | Not applicable<br><br>Use high rate with extreme population numbers. See GENERAL INSTRUCTIONS on soil application.  |
|  | Corn aphid                                      |               |   | 500 mL   | 2 days  |
|  | False wireworm<br>Cockroaches<br>Field crickets | Qld only      | 100 mL +<br>125 mL<br>sunflower<br>oil/2.5 kg<br>cracked wheat<br>or cracked<br>sorghum bait/ha | <b>Grazing</b><br>2 days   | Apply at planting of crop. See GENERAL INSTRUCTIONS on preparation of cracked wheat or cracked sorghum bait.  |
| Sugar cane   | Southern armyworm<br>Common armyworm            |               | 700 or 900 mL   | 7 days<br><br><b>Grazing</b><br>2 days   | Spray over total crop area when infestation is widespread. When pests are moving as an "army" treat a broad strip over and in advance of the infestation. <b>Late stage instar:</b> Use higher rate when larvae 3 cm in length. Apply follow-up treatments as required. |



## FIELD CROPS and PASTURE (continued)

| CROPS                     | INSECT                                       | STATE         | VOL/HA        | WITHHOLDING PERIODS                    | CRITICAL COMMENTS  |
|---------------------------|--|---------------|---------------|--|--|
| Sugar cane<br>(continued) | Spur-throated locust                         | Qld only      | 1.25 or 1.5 L | 7 days<br><br><b>Grazing</b><br>2 days | Spray areas of crop infested with locusts. Apply spray to trees or roosting sites to control swarming adult locusts.<br><b>Late stage hoppers and adults:</b><br>Use higher rate.  |
|                           | Australian plague locust<br>Migratory locust |               | 350 mL        |  | <b>Adults:</b> Spray areas of crop infested with locusts.<br><b>Hoppers:</b> Spray a swath in advance of marching band and then spray along the dense marching front. Continue spraying until all hoppers have been contacted.<br>Spray areas of crop, trees and roosting sites infested with locusts. |
|                           | Symphylids                                   |               | 2 L           |  | Apply as a low pressure (less than 35 kPa) or gravity feed spray onto the plant sett and adjacent to soil, at the point of exit from the rear of the planting machine, immediately prior to soil cover being brought in over the sett.   |
|                           | Sugar cane wireworm                          | Qld, NSW only | 1.5 L         |  | Apply at planting or ratooning. Apply as a low pressure (less than 35 kPa) or gravity feed spray onto the plant sett and adjacent soil through a nozzle placed above the planter boards. Repeat treatment within 12 weeks of planting if black beetles re-occur.                                       |
|                           | African black beetle<br>Black beetle         | NSW only      | 1.5 L         |  | Apply as a pre-plant spray to cultivated soil surface. Incorporate immediately by rotary hoeing to a depth of 10 cm.   |
| Tobacco                   | Wireworm<br>False wireworm<br>Cutworms       | Vic only      | 3 L           |  |  |

## MICELLANEOUS

| CROPS  | INSECT        | STATE             | VOL/HA         | SPOT SPRAY      | CRITICAL COMMENTS   |
|--|---------------|-------------------|----------------|-----------------|---|
| Agricultural<br>Domestic<br>Commercial and<br>Industrial areas | Argentine Ant | Vic, Tas, SA only | Not applicable | 1 L/100 L water | Spray ant tracks, nest or where ant activity is noticed. Apply to paths in continuous 30 cm bands. Apply to base of building walls, fences, rockwork, trunks of shrubs and trees, and other hard surfaces to a height of 30 cm.<br><br><b>Note:</b> All occurrences of Argentine ants are to be reported to WA Department of Agriculture. |
| Domestic<br>Commercial and<br>Industrial areas<br>only         |               | NSW only          |                |                 |   |
| Domestic areas<br>only   |               | WA only           |                |                 |   |

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

## WITHHOLDING PERIODS

**CEREAL GRAINS, LEGUME ANIMAL FEEDS, GRASSES, GRASS-LIKE PLANTS, PASTURES AND OTHER FORAGES/FORAGE CROPS:**

**DO NOT graze or cut for stock food for 2 days after application.**

**DO NOT spray the following crops later than the number of days shown, before harvest:**

- Mango - 21 days
- Bananas, Citrus, Grape vines, Kiwi fruit
- Pome fruit, Stone fruit, Asparagus, Celery - 14 days
- Cereal grain crops - 10 days
- Avocado, Sugar cane - 7 days
- Cole crops, Cucurbits - 5 days
- Tomatoes - 3 days
- Sorghum grain crops - 2 days

## COTTON:

**DO NOT harvest for 4 weeks after application.**

**DO NOT graze or cut for stock food for 4 weeks after application.**



## GENERAL INSTRUCTIONS

Thorough coverage is essential. For application by aircraft apply in 10-50 L of water/ha.

### Mixing

Slowly add the required amount of product to the water in the spray tank under agitation.

### Soil Application

**In-furrow:** Apply as a band spray to the open furrow at planting. Spray the entire furrow width using a nozzle located directly behind the seed tube. Ensure all spray is directed into the furrow contacting bottom, sides and all soil drawn in to the furrow at closure. Use a minimum of 20 L of water/ha. Use the higher rate under extreme population numbers.

### Bait Application

**Bran bait:** Mix 10 mL/kg of bran using sufficient water to give a moist crumb structure. Allow to stand for 2-3 hours before application. Gloves should be worn when preparing and applying the bait.

**Cracked wheat or cracked sorghum bait:** Mix the required volume of this product and sunflower oil together. Then, add to the wheat or sorghum, mixing thoroughly. Gloves should be worn when preparing the bait.

### Compatibility

Lorsban 500EC Insecticide is compatible with the following:

#### Herbicides

Atrazine, bromoxynil, chlorsulfuron, diclofop-methyl, diuron, flamprop-methyl, fluometuron, glyphosate, paraquat, paraquat + diquat, pendimethalin, trifluralin.

#### Insecticides and Miticides

Acephate, azinphos-methyl, carbaryl, cypermethrin, deltamethrin, demeton-S-methyl, diazinon, dichlorvos, dicofol, dimethoate, endosulfan, ethion, fenvalerate, maldison, methidathion, methomyl, monocrotophos, oils, oxythioquinox, parathion, phosalone, phosmet, tetradifon, trichlorfon.

#### Fungicides

Benomyl, chlorothalonil, thiram, triadeimefon, zineb, ziram.

#### Fertilisers

Diammonium, phosphate, limestone, miloreanite, monoammonium sulophate, potash, sulphur coated urea, triple superphosphate, urea.

### Incompatibility

Lorsban 500EC Insecticide is not compatible with the following:

#### Herbicides

Dicamba, MCPA, Tordon\* 75-D, Tordon\* 242, 2,4-D.

#### Fungicides

Fixed coppers, liquid and organic coppers, wettable sulphur.

#### Fertilisers

Iron sulphate, manganese sulphate, zinc oxysulphate.

## INSECTICIDE RESISTANCE WARNING

### GROUP 1B INSECTICIDE

For insecticide resistance management Lorsban 500 EC Insecticide is a Group 1B insecticide.

Some naturally occurring insect biotypes resistant to Lorsban 500 EC Insecticide and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Lorsban 500 EC Insecticide or other Group 1B insecticides are used repeatedly. The effectiveness of Lorsban 500 EC Insecticide on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Dow AgroSciences Australia Limited accepts no liability for any losses that may result from the failure of Lorsban 500 EC Insecticide to control resistant insects. Lorsban 500 EC Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier or Dow AgroSciences representative.

## PRECAUTIONS

### Re-entry periods

**Field crops, tree crops and vines:** Do not allow entry into treated crops until spray deposits have dried. If prior entry is required, limit duration of entry and wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

**Cotton chippers:** Do not allow entry into treated areas until spray deposits have dried. After this time wear shoes, or boots, socks, long trousers, long sleeved shirt, gloves and hat.

### PROTECTION OF LIVESTOCK

DO NOT feed grass clippings to poultry or other animals.

Dangerous to bees. DO NOT spray any plants in flower while bees are foraging.

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

DO NOT contaminate food, feed or domestic water supplies.

HIGHLY TOXIC TO BIRDS AND REPTILES. VERY HIGHLY TOXIC TO FISH AND AQUATIC INVERTEBRATES

DO NOT re-apply to the same crop within 7 days (unless specifically recommended in the DIRECTIONS FOR USE)

Spray drift may occur under adverse meteorological conditions or from certain spray equipment. DO NOT allow spray to drift onto sensitive areas including, but not limited to, natural streams, rivers or waterways and human dwellings. A spray drift management strategy such as those in the 'Best Management Practices Manual for Cotton Growers' or the 'Pilots and Operators Manual' should be applied.

Option for minimising drift to sensitive areas include not spraying within a certain distance of sensitive areas when the wind is blowing towards them (see table for guidance) or ensuring that drifting spray will be intercepted by a catching surface such as a row of shelter trees, an unsprayed row of orchard trees, or hail netting.

| Situation                                    | Recommended buffer distance (m) |
|--|---------------------------------|
| Orchard (dormant trees, citrus, large trees) | 30                              |
| Cotton (aerial application)                  | 300                             |
| Other crops (aerial application)             | 100                             |

DO NOT apply if heavy rains or storms that are likely to cause surface runoff are forecast in the immediate area within two days of application.

DO NOT apply when irrigating, or to waterlogged soil, or while water remains on the surface or in furrows, unless tailwater is captured on farm.

DO NOT allow contaminated runoff water from treated paddocks to enter adjacent areas or water bodies. Runoff contaminated by irrigation events (tailwater) and a 25 mm rain storm should be captured on farm for 2 days after application.

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

### STORAGE AND DISPOSAL

Store in closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

DO NOT store near food, feedstuffs, fertilisers or seed.

The method of disposal of the container depends on the container type. Read the STORAGE AND DISPOSAL instructions on the label that is attached to the container.

### SMALL SPILL MANAGEMENT

Wear protective equipment (see SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, cat litter or clay granules to the spill. Sweep up material when absorption is completed and contain in a refuse vessel for disposal in the same manner as for containers (see STORAGE AND DISPOSAL section). If spilled inside a building wash contaminated surfaces to deactivate the chlorpyrifos with a solution of bleach (sodium hypochlorite) prepared according to the bleach label instructions.



## SAFETY DIRECTIONS

- Product is poisonous if absorbed by skin contact, inhaled or swallowed.
- Repeated exposure may cause allergic disorders.
- Repeated minor exposure may have a cumulative poisoning effect.
- Obtain an emergency supply of atropine tablets 0.6 mg.
- Will irritate eyes and skin.
- Avoid contact with eyes and skin.
- Do not inhale vapour or spray mist.
- When opening the container, preparing the spray or bait, using the prepared spray or bait, wear chemical resistant clothing buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves, goggles, impervious footwear and half face piece respirator with combined dust and gas cartridge.
- If product on skin, immediately wash area with soap and 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, contaminated clothing and if rubber wash with detergent and warm water.

## FIRST AID

- If swallowed, splashed on skin or in eyes, or inhaled, contact the Poisons Information Centre (Phone: Australia 13 11 26) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed activated charcoal may be advised. Give atropine if instructed.
- If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

## MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet for Lorsban 500 EC Insecticide which is available on request from Dow AgroSciences. Call Customer Service Toll Free on 1-800 700 096 or visit [www.dowagrosciences.com.au](http://www.dowagrosciences.com.au)

APVMA Approval No: 32887/0107

GMID: 281411 01/07





**PACKAGING ARTWORK:** *Lorsban 500 EC 20 L - Booklet*

**APVMA APPROVAL #:** 32887/20/0107

|                    | FINAL APPROVAL | DATE |
|--------------------|----------------|------|
| Marketing          |                |      |
| Regulatory Affairs |                |      |

Workhouse job #: DE13021  
Artwork revision date: 12/01/07

Artwork is at 100%

**BLACK**



workhouse

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