## Kohinor® 200 Insecticide

**Active Constituent:** 200 g/L Imidacloprid

**Group 4A Insecticide**

*For the control of various insect pests of cotton, fruit, vegetables, ornamentals and turf as specified in the Directions for Use table.*

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### DIRECTIONS FOR USE

**FOLIAR SPRAY APPLICATIONS**

<table>
<thead>
<tr>
<th>CROP</th>
<th>PEST</th>
<th>RATE</th>
<th>WHP</th>
<th>CRITICAL COMMENTS</th>
</tr>
</thead>
</table>
| Cotton        | Aphids                        | 250 mL/ha + Pulse Penetrant at 0.2% v/v (2 mL/L water) or equivalent organosilicone surfactant* (eg Freeway Gold) | 13 weeks | The addition of Pulse Penetrant or equivalent is critical for the performance of KOHINOR 200. Apply early in the establishment of an aphid infestation when numbers are low (ie no more than 1 or 2 leaves per plant with honeydew present). Applications made later than this may result in reduced control. Shorter residual control may be evident and a repeat application of a registered aphicide (follow the Cotton Insecticide Resistance Management Strategy for cotton aphid) may be required to achieve complete control:  
  - if application of KOHINOR 200 plus Pulse or equivalent are timed too late (see above); or  
  - if existing high density aphid colonies (hotspots) are present; or  
  - if aphids have established throughout the plant canopy (especially lower in the canopy); or  
  - if there is high reinestation pressure; or  
  - if there is rapid crop growth; or  
  - if KOHINOR 200 plus Pulse or equivalent is used following a spray-failure (eg resistance to organophosphate or carbamate insecticides). Note: Where resistance to carbamates or organophosphates is suspected, KOHINOR 200 plus Pulse or equivalent should be used first so as not to delay control of the aphids present. Aphids treated with KOHINOR 200 plus Pulse or equivalent may still be present on the plant but will not be feeding. Control of aphids should initially be assessed by a reduction in fresh honeydew and not on the presence of aphids on the plant. After ingesting KOHINOR 200, aphids may take up to 5 days to die. |
| Mirids, Brown Flea Beetle | Apply when pest numbers reach treatment threshold levels as determined by field checks. |
| Stone Fruit | Green Peach Aphid, Black Peach Aphid | Dilute spraying 25 mL/100 L Concentrate spraying Refer to Mixing/ Application section | 21 days | Apply at first sign of aphid infestation. Apply as a full cover spray, ensuring thorough coverage. Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. DO NOT use in equipment that requires rates greater than 125 mL/100 L of water (ie. greater than 5x concentration). |

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**Please note:**  
- **CAUTION:** Keep out of reach of children. Read safety directions before opening or using.

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**adama.com CONTENTS:** 1L, 5L, 10L, 20L, 60 L, 110L

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### SOIL DRENCH APPLICATIONS

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<thead>
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<tbody>
<tr>
<td>Seedling Eucalypts in pots</td>
<td>Chrysomelid Beetle Larvae, Psyllids</td>
<td>2.5 mL/plant</td>
<td></td>
<td>Mix in water up to 0.5 L per 3 L pot and apply to soil. Use less water for smaller pots. DO NOT dilute to the point where mix runs out the bottom of pots.</td>
</tr>
<tr>
<td>Elm</td>
<td>Elm Leaf Beetle</td>
<td>7 mL/25 mm of tree diameter at breast height</td>
<td></td>
<td>Mix the required dose in sufficient water to adequately treat each tree. Use at least 50 L of mix per tree to a tree diameter of 400-500 mm and then 100 L per tree for larger trees. Inject mix to a depth of 20-30 cm in a minimum of 4 injection sites per tree, 0.75 to 1.5 m apart, arranged in an evenly spaced grid to just beyond the drip line. Ensure root zone is adequately moist with active root growth. Keep treated area moist for 7-10 days after treatment. Treat at least 6-10 weeks prior to pest attack in late Winter or early Spring when roots are active. DO NOT treat if soil is waterlogged.</td>
</tr>
<tr>
<td>Apples</td>
<td>Woolly Aphid</td>
<td>Chemical control 12 mL/L of water/tree, Beneficial insect plus chemical control (eg. Aphelinus malis plus KOHINOR 200) 3 mL/L of water/tree</td>
<td></td>
<td>For trees up to 7 years of age. During late Summer or Autumn, apple trees with Woolly Aphid colonies or damage should be identified and marked for treatment the following season. At green tip to petal fall, apply 1 litre of the prepared KOHINOR 200 mixture to moist soil immediately around the base of the tree trunk. Ensure the mixture infiltrates the soil around the trunk and does not run-off the soil. Control weeds before application. DO NOT disturb or remove the soil around the trunk during the season. If aerial colonies are present at application, maximum effectiveness may not be achieved until the following season. DO NOT treat more than once in any 3 year period.</td>
</tr>
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### FOLIAR SPRAY APPLICATIONS - continued

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<tr>
<td>Tomatoes</td>
<td>Grey Cabbage Aphid, Turnip Aphid</td>
<td>25 mL/100 L or 300 mL/ha</td>
<td>7 days</td>
<td>Apply at first sign of aphid infestation. Add a wetting agent.</td>
</tr>
<tr>
<td>Sweet potato</td>
<td>Silverleaf Whitefly, including type B</td>
<td>25 mL/100 L or 250 mL/ha</td>
<td>7 days</td>
<td>Apply at first sign of Whitefly or Melon Thrips infestation. Apply dilute sprays (25 mL/200 L) to run-off. Ensure thorough coverage of underside of leaves. Use of droppers will improve coverage of underside of leaves.</td>
</tr>
<tr>
<td>Cucurbits</td>
<td>Green Peach Aphid</td>
<td>25 mL/100 L or 300 mL/ha</td>
<td>1 day</td>
<td>Apply at first sign of aphid infestation.</td>
</tr>
</tbody>
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SOIL DRENCH APPLICATIONS - continued

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<td>Azaleas in pots</td>
<td>Azalea Lace Bug</td>
<td>3.5 mL/250 mL water/pot</td>
<td>Use as a soil drench for pots up to 20 L capacity. Prior to application remove mulch and dead vegetation and moisten the soil surface. Apply the KOHINOR 200 mixture, and then water it in well immediately after application.</td>
</tr>
<tr>
<td>Ornamentals in pots</td>
<td>Scarab Beetle Larvae</td>
<td>3.5 mL/5 L water</td>
<td>Use as a soil drench. 5 L of mixture will treat twenty 8 L pots. Prior to application remove mulch and dead vegetation and moisten the soil surface. Apply the KOHINOR 200 mixture, and then water it in well immediately after application.</td>
</tr>
<tr>
<td>Roses</td>
<td>Aphids</td>
<td>3.5 mL/2 L water/plant</td>
<td>Use as a soil drench by pouring mixture evenly around drip zone. Use this rate for plants up to 1 m high. For each additional metre of plant height, add 2 mL extra of KOHINOR 200 to the 2 L of water. Prior to application remove mulch and dead vegetation and moisten the soil surface. Apply the KOHINOR 200 mixture, and then water it in well immediately after application.</td>
</tr>
</tbody>
</table>

For soil drench treatments, remove mulch and dead vegetation, and moisten the soil surface first. Apply the KOHINOR 200 mixture, then water it in well immediately after application.

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

WITHHOLDING PERIODS:

APPLES: NOT REQUIRED WHEN USED AS DIRECTED.
COTTON: DO NOT HARVEST FOR 13 WEEKS AFTER APPLICATION.
DO NOT GRAZE OR CUT FOR STOCK FOOD.
CUCURBITSES: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.
Tomatoes: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.
BRASSICAS, CAPSICUM, EGG PLANT, POTATOES, SWEET POTATOES: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.
STONE FRUIT: DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.

DO NOT GRAZE ANY TREATED AREA OR CUT FOR STOCK FOOD.
DO NOT FEED PRODUCE HARVESTED FROM TREATED AREA TO ANIMALS, INCLUDING Poultry.

GENERAL INSTRUCTIONS

INSECTICIDE RESISTANCE WARNING

Insecticide is a Group 4A insecticide. Some naturally occurring insect biotypes resistant to KOHINOR 200 and other Group 4A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if KOHINOR 200 and other Group 4A insecticides are used repeatedly. The effectiveness of KOHINOR 200 on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Adama Australia Pty. Ltd. accepts no liability for any losses that may result from the failure of KOHINOR 200 to control resistant insects. KOHINOR 200 may be subject to specific resistance management strategies. For further information contact your local supplier, Adama representative or local agricultural department agronomist.

Insecticide Resistance Management Strategy

Cotton Aphid in cotton: Observe the cotton industry Insecticide Resistance Management Strategy (IRMAS). Aphids, Whityfly and Melon Thrips in various crops: DO NOT apply KOHINOR 200 (or other Group 4A Insecticides) in consecutive sprays within and between seasons. Rotate with registered insecticides from other mode of action groups.

Annuals – DO NOT apply more than one spray of KOHINOR 200 (or other Group 4A Insecticides) in consecutive spray volumes. Perennials – Rotate with registered insecticides from other groups. Use a maximum of three applications of KOHINOR 200 (or other Group 4A Insecticides) in any 12 months period.

MIXING/APPLICATION

Prior to pouring, shake container vigorously, then add the required quantity of KOHINOR 200 to water in the spray vat while stirring or with agitators in motion.

Dilute Spraying (Stone Fruit)

Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off. The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice. Add the amount of product specified in the Directions For Use table for each 100 L of water. Spray to the point of run-off. The required dilute spray volume will change, and the sprayer set up and operation may also need to be changed, as the crop grows.

Concentrate Spraying (Stone Fruit)

Use a sprayer designed and set up for the concentrate spraying that is a sprayer which applies water volumes less than those required to reach the point of run-off, and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume. Determine an appropriate dilute spray volume (See Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate. The mixing rate for concentrate 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 10 mL/100 L, then the concentrate rate becomes 3 x 10, that is 30 mL/100 L of concentrate spraying.

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.

DO NOT use a concentrate rate higher than that specified in the Critical Comments.

For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

APPLICATION (Cotton)

Thorough coverage of cotton plants is essential to achieve maximum performance from KOHINOR 200 plus Pulse* Equipment should be calibrated to achieve a minimum of 60 droplets/cm² on the target foliage. A droplet Volume Median Diameter (VMD) for optimum performance from KOHINOR 200 plus Pulse is dependent on equipment and is defined below. DO NOT apply when unfavourable environmental conditions may reduce the quality of spray coverage.

GROUND APPLICATION (Cotton)

Application using ground equipment should be made using hollow cone nozzles with a minimum spray volume of 100 L/ha. Hollow cone nozzles are recommended but if flat fan nozzles are used, higher water volumes will be required and nozzles should be configured to ensure thorough coverage. A droplet VMD of 150-180 microns must be used. Where multiple nozzles per row are used, they should be of the same specification to ensure that each nozzle contributes an equal proportion of the required dose. Where multiple nozzles per row are used (particularly for banded applications) ensure the correct nozzles overlap pattern is achieved on the target foliage. Banded applications less than 100% are not recommended beyond the 15 node crop stage.
AERIAL APPLICATION (Cotton)
Apply in a minimum spray volume of 25 L/ha. A droplet VMD 120-150 microns must be used. DO NOT exaggerate swath width or exceed a swath width of 20 to 22 m. DO NOT apply KOHINOR 200 plus Pulse using Ultra Low Volume (ULV) methods. The use of large droplet placement equipment is not recommended.

EXPORT OF TREATED PRODUCE
Growers should note that suitable MRLs or import tolerances do not exist in all markets for edible produce treated with KOHINOR 200. If you are growing produce for export, please check with Adama for the latest information on MRLs and export tolerances before using KOHINOR 200.

NOTE ON ORNAMENTALS
KOHINOR 200 Insecticide has been used on a wide range of ornamental plant species without damage. However, some species and varieties are particularly sensitive to chemical sprays as this is often related to local conditions it is advisable to treat only a small number of plants first, in order to ascertain their reaction before treating the whole crop.

STORAGE AND DISPOSAL (1 L)
Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. 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.

STORAGE AND DISPOSAL (5 L, 10 L, 20 L)
Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site.

If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS
Harmful if swallowed. May irritate the eyes and skin. Avoid contact with eyes and skin. Wash hands after use. When preparing product for use, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. After each day’s use, wash gloves, goggles and contaminated clothing.

FIRST AID
If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131128.

MSDS
Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for KOHINOR 200 is available from Adama on request. Call Customer Service on (02) 9431 7800.

CONDITIONS OF SALE: The use of KOHINOR® 200 Insecticide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia Pty. Ltd. regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Adama Australia Pty. Ltd. accepts no responsibility for any consequence whatsoever resulting from the use of this product.

Kohinor is a trademark of an ADAMA Agricultural Solutions Ltd Company
Other trademarks

NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.

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Adama Australia Pty. Ltd.  ABN 55 050 328 973
Suite 1, Level 4, Building B, 207 Pacific Highway
St Leonards NSW 2065 Australia
Tel: (02) 9431 7800  Fax: (02) 9431 7700

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Batch No.

Date of Manufacture