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

Admiral
INSECT GROWTH REGULATOR

ACTIVE CONSTITUENT: 100 g/L PYRIPROXYFEN
SOLVENT: 450 g/L LIQUID HYDROCARBONS

GROUP 7C INSECTICIDE

For the control of silverleaf whitefly (*Bemisia tabaci* Biotype B) in cotton, rockmelon and capsicum, the control of silverleaf whitefly (*Bemisia tabaci* Biotype B) and greenhouse whitefly in tomatoes, and the control of various scale in citrus, mangoes and olives.

TRADE ADVICE INFORMATION:
Treated citrus fruit, mangoes, melons, tomatoes and olives destined for export may require extra time being allowed between application and harvest, to be accepted in some export markets. Before you use this product, you are advised to contact Sumitomo Chemical Australia Pty Ltd and/or your industry body about any potential trade issues and their management.

GENERAL INSTRUCTIONS:
ADIMIRAL acts by suppressing embryogenesis with the insect egg and by inhibiting metamorphosis and adult emergence of target insects. ADMIRAL has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

MIXING
Measure the required amount of ADMIRAL, add to the partly filled spray tank and then add the remainder of the water.

APPLICATION
COTTON:
Ensure thorough coverage. Apply in 100 – 150 L water/ha (ground rig boom spray) OR 20 – 30 L water/ha (aerial). Ground application must be first option undertaken, aerial application may only be applied in cases where canopy closure prevents ground access. Apply when industry recommended thresholds of silverleaf whitefly (SLW) are exceeded.
DO NOT apply more than two applications per crop.
DO NOT apply consecutive applications, apply the product as part of a SLW management strategy with other approved chemistry for SLW in particular a non Insect Growth Regulator (IGR) product. The minimum re-treatment interval permitted between the first and second ADMIRAL spray is 14 days. Apply in accordance with the SLW Resistance Management Strategy.

CITRUS, MANGOES and OLIVES:
It is essential to apply in sufficient water to ensure thorough coverage. For young trees this will be approximately 1000 L/ha. DO NOT apply less than 1000 L/ha to bearing trees.

CLEANING SPRAY EQUIPMENT
After using ADMIRAL IGR empty the tank and completely drain the system. Rinse the tank, pump, lines, hoses, filters and nozzles by circulating clean water through the system. Drain and repeat the rinsing procedure twice.

RE-ENTRY
DO NOT allow re-entry into treated areas until the spray has dried unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

INSECTICIDE RESISTANCE WARNING
For insecticide resistance management ADMIRAL is a Group 7C insecticide.
Some naturally occurring insect biotypes resistant to ADMIRAL and other Group 7C insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if ADMIRAL or other Group 7C insecticides are used repeatedly. The effectiveness of ADMIRAL on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, Sumitomo Chemical Australia Pty Ltd accepts no liability for any losses that may result from the failure of ADMIRAL to control resistant insects.
ADMIRAL may be subject to specific resistance strategies. For further information contact your local supplier, Sumitomo Chemical Australia Pty Ltd representative or local department of agriculture agronomist.

To ensure ADMIRAL remains effective DO NOT use more than twice per season.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very highly toxic to aquatic organisms. DO NOT contaminate streams, rivers, waterways or dams with the chemical or used container.

DO NOT apply if waterbodies, watercourses or wetlands are within 50 m downwind of the application area for tree crops when applied by ground equipment.

DO NOT apply under weather conditions, or from spraying equipment, that may cause off-target spray drift, particularly to wetlands, waterbodies or watercourses.

DO NOT spray across open bodies of water.

DO NOT apply by air to crops other than cotton.

DO NOT apply if waterbodies, watercourses or wetlands are within 200 m downwind of the application area for cotton where applied aerially.

For aerial application ensure a spray with a droplet size distribution of ASAE Fine (VMD 179 µm) or larger is used.

A strategy to minimise spray drift should be employed at all times when aerially applying sprays to, or near, sensitive areas. Such a strategy is illustrated by the cotton industry’s Best Management Practice Manual.

STORAGE AND DISPOSAL

Store in the closed original container in a well-ventilated area, as cool as possible. 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, break, crush or puncture and deliver empty packaging to an approved waste management facility. DO NOT burn empty containers.

SAFETY DIRECTIONS

Product is harmful if inhaled or swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, elbow-length nitrile or PVC gloves, goggles, half facepiece respirator with organic vapour cartridge or canister. If product is on skin, immediately wash area with soap and water. If product is in eyes, wash it out immediately with water. After each day’s use, wash gloves, goggles and respirator and if rubber wash with detergent and warm water.

FIRST AID

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

If swallowed DO NOT induce vomiting. Give a glass of water.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet (MSDS).

EXCLUSION OF LIABILITY

Unless otherwise expressly stated in writing neither Sumitomo Chemical Australia Pty Ltd nor the distributor has any knowledge of the particular use to which the buyer proposes to put this product. In purchasing this product the buyer must rely solely upon their own skill and judgement as to its suitability for the particular purpose for which it is required.

Except to the extent that exclusion or denial of liability is prohibited under the Trade Practices Act or any relevant state legislation, Sumitomo Chemical Australia Pty Ltd and the distributor expressly exclude any warranty as to the quality or fitness of any goods sold for any purpose whatsoever and deny all responsibility in contract tort negligence or otherwise for any harm or damage resulting from the use of such goods or from acting on the advice or recommendations as to such use given in good faith by any representative of Sumitomo Chemical Australia Pty Ltd or the distributor. If these conditions are unacceptable to the buyer, the goods should be returned to Sumitomo Chemical Australia Pty Ltd unopened within seven (7) days for refund of purchase price.

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APVMA Approval No: 60997/1L/1109
60997/5L/1109

THIS PRODUCT IS NOT CONSIDERED TO BE A DANGEROUS GOOD UNDER THE AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD OR RAIL

IN A TRANSPORT EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE
SPECIALIST ADVICE IN AN EMERGENCY ONLY ALL HOURS - AUSTRALIA WIDE 1800 024 973
DIRECTIONS FOR USE:

**RESTRAINTS**
DO NOT apply if rain is forecast within 48 hours.
DO NOT apply to soils where surface water is evident.
DO NOT apply ADMIRAL more than twice per growing season. ADMIRAL should be alternated with other suitable products, the choice of which will depend on the need to maintain beneficial insects in the field or orchard.

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

<table>
<thead>
<tr>
<th>CROP</th>
<th>INSECT</th>
<th>RATE</th>
<th>CRITICAL COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cotton</td>
<td>Silverleaf whitefly (<em>Bemisia tabaci</em> Biotype B)</td>
<td>500 mL/ha</td>
<td>Ensure thorough coverage (See APPLICATION). Apply when industry recommended thresholds of silverleaf whitefly (SLW) are exceeded. If a second spray is required, a minimum re-treatment interval of two weeks must be observed. DO NOT apply more than twice in any one season. Apply as per current Cotton Industry Insecticide Resistance Management Strategy.</td>
</tr>
<tr>
<td>Rockmelon, Tomato, Capsicum (field and greenhouse)</td>
<td>Silverleaf whitefly (<em>Bemisia tabaci</em> Biotype B)</td>
<td>50 mL/100 L water</td>
<td>Ensure thorough coverage (See APPLICATION). Apply in 100 – 150 L water per hectare. Use high water volume 500 – 1000 L/ha for dense crops. If applying more than 1000 L/ha use a rate of 50 mL/100 L water. Apply at first appearance of whitefly. If a second spray is required, a minimum re-treatment interval of two weeks must be observed. DO NOT apply more than twice in any one season. To avoid the resistance build-up, the product must be rotated with other approved products. Apply in accordance with the SLW Resistance Management Strategy.</td>
</tr>
<tr>
<td>Citrus</td>
<td>Red scale (<em>Aonidiella aurantii</em>)</td>
<td>50 mL/100 L water</td>
<td>Ensure thorough coverage (See APPLICATION). Red scale: Apply at the time of crawler release. There are usually multiple periods of crawler release from spring through to autumn. Ideally ADMIRAL should be applied to control the first generation but if the infestation persists and there is significant crawler release later in the season then ADMIRAL can be applied again. DO NOT apply more than twice in any one season on tree crops.</td>
</tr>
<tr>
<td></td>
<td>Black scale (<em>Saissetia oleae</em>)</td>
<td></td>
<td><strong>Black scale:</strong> Apply at the time of crawler release which is usually December to January but also may occur in autumn. DO NOT apply more than twice in any one season.</td>
</tr>
<tr>
<td>Mango</td>
<td>Mango scale (<em>Aulacaspis tubercularis</em>)</td>
<td></td>
<td><strong>Mango scale:</strong> Apply at the time of crawler release. There are usually multiple periods of crawler release from spring through to autumn. Ideally ADMIRAL should be applied to control the first generation but if the infestation persists and there is significant crawler release later in the season then ADMIRAL can be applied again. DO NOT apply more than twice in any one season.</td>
</tr>
<tr>
<td></td>
<td>Pink wax scale (<em>Ceroplastes rubens</em>)</td>
<td></td>
<td><strong>Pink wax scale:</strong> Apply at the time of crawler release in early spring to early summer. There are usually two periods of crawler release in Queensland, with crawlers of the second generation emerging in mid summer to mid autumn. Ideally ADMIRAL should be applied to control the first generation but if the infestation persists and there is significant second generation crawler release then ADMIRAL can be applied again. DO NOT apply more than twice in any one season.</td>
</tr>
<tr>
<td>Olives</td>
<td>Black scale</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WITHHOLDING PERIODS:

**COTTON:**
DO NOT HARVEST FOR 28 DAYS AFTER APPLICATION.
DO NOT GRAZE TREATED CROP OR CUT FOR STOCK FEED.
DO NOT FEED TREATED COTTON TRASH TO LIVESTOCK.

**ROCKMELON, TOMATO AND CAPSICUM:**
DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.
DO NOT GRAZE TREATED CROP FOR STOCKFEED.

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

**OLIVES:**
DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.
DO NOT FEED TREATED OLIVE CROPS OR BY-PRODUCTS OF TREATED CROPS (E.G. OLIVE POMACE) TO LIVESTOCK.

**MANGOES:**
DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.