

CAUTION

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

OFFSET™

250 PLANT GROWTH REGULATOR

ACTIVE CONSTITUENT:
250 g/L PACLOBUTRAZOL

To reduce vegetative growth in Mango, Stone fruit and Apple Trees

IMPORTANT:
READ THIS LEAFLET BEFORE OPENING OR USING THIS PRODUCT

RELYON®

APVMA Approval No:
84665/114950

DIRECTIONS FOR USE

RESTRAINTS

DO NOT use on trees of low vigour or under stress (see General Instructions).

DO NOT use in orchards under-planted with any other crops.

DO NOT apply to young trees which have recently been inter-planted in orchards and which are required to make vigorous growth.

DO NOT apply by aircraft.

Crop & Situation	State	Application Method	Rate	Critical Comments
Mango	Qld, NT & NSW only	Collar, Drench : <u>Trees 3-6 yrs old :</u> Light sands, Clay, Red Volcanics <u>Trees over 6yrs:</u> Light Sands, Clay, Red Volcanics	Per Tree: 8 – 12 mL 12 – 16 mL 16 – 20 mL 20 mL	Apply within 4 weeks after harvest or no later than mid-February. Adjust rate within range according to tree age. Use high rate for older trees. Ensure trees are well watered before and after application. CAUTION: Do not treat young trees with a canopy of less than 3m diameter. CAUTION: Excessive compaction of flower panicles may result from application at times later than recommended or from delayed uptake caused by dry soil conditions. Care should be taken to ensure correct insecticide application to control webworm in compact flower panicles. RETREATMENT: The effects of Offset 250 Plant Growth Regulator on flowering and growth may persist for more than one season. Sandy Soils: Postpone retreatment until after the harvest following resumption of normal growth. Use the interval between the first treatment and resumption of normal growth as a guide to retreatment frequency in subsequent years. Clays & Red Volcanic soils: Retreat each season. If reduction of growth increases progressively from season to season postpone treatment until after the harvest following the resumption of normal growth.
Apples: Red Delicious & Granny Smith	All States	Spray	500mL to 1 L/ha Add 18mL 600g/L Surfactant per 100L water in final spray volume	Apply in a sequential spray program commencing 28 days after full bloom on Red Delicious or 35 days after full bloom on Granny Smith. Use lower rate on less vigorous trees. Apply subsequent sprays at the lower rate at intervals of 21 days for as long as growth control is required. Activity results from uptake of chemical by young green stem tissue. Do not apply more than 4L/ha per season. CAUTION: If using carbaryl as a chemical thinning agent, plan to allow 21 days between application of carbaryl and Offset 250 Plant Growth Regulator.
Peaches, Nectarines	All States	Trickle Irrigation Collar Drench	2 L/ha 2 to 4 L/ha	Apply in early Autumn or in Spring between 14 days prior to bud burst and full bloom. Late Summer or early Autumn application is recommended for early maturing cultivars. Divide rate per ha by the number of trees per ha to determine the rate per tree. Use high rate on medium and heavy soil types. RETREATMENT: Retreat trees with 2L/ha (trickle) or with 2-3L/ha (collar drench) in subsequent season. Rates of application for retreatment may be reduced if a lesser degree of growth control is desired. On light soils, retreat when normal growth resumes. Use the low rate for retreatment of low vigorous varieties in cool districts.
Apricots, Plums	All States	Trickle Irrigation Collar Drench	2 L/ha 2 to 4 L/ha	Apply in early Autumn or in Spring between 14 days prior to bud burst and full bloom. Bloom dates may be advanced. In plums, ensure that pollinator trees are treated at the same time to synchronise flowering. Divide rate per ha by the number of trees per ha to determine the rate per tree. Use high rate on medium and heavy soil types. RETREATMENT: Do not retreat until the season in which normal growth resumes.
Cherries	All States	Trickle Irrigation Collar Drench	1 L/ha 1 to 2 L/ha	Apply in early Autumn or in Spring between 14 days prior to bud burst and full bloom. Use high rate on medium and heavy soil types. Bloom dates may be advanced. Ensure that pollinator trees are treated at the same time to synchronise flowering. Divide rate per ha by the number of trees per ha to determine the rate per tree. Use high rate on medium and heavy soil types. RETREATMENT: Do not retreat until the season in which normal growth resumes.

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

WITHHOLDING PERIOD: APPLES - DO NOT APPLY LATER THAN 21 DAYS BEFORE HARVEST

GENERAL INSTRUCTIONS

Offset 250 Plant Growth Regulator is a systemic growth regulator that reduces internode lengths of new shoots and causes earlier formation of terminal buds. Use of Offset 250 Plant Growth Regulator should begin only when trees are nearing their optimum size. It is most suited to intensively managed orchards where trees are near to filling their allocated space and growth control is a prime requirement. It is not suitable for old or unhealthy trees. If a tree is under stress Offset 250 Plant Growth Regulator should NOT be used.

- Stress can be caused by:
 - moisture shortage due to lack of rain, or inadequate irrigation
 - high temperature
 - salinity
 - moisture excess due to water table, flooding or inappropriate irrigation
 - severe or successive frosts; poor fertility caused by imbalance of major or minor nutrients, diseases, insects, inappropriate herbicide use, mechanical damage.

Tree Management

Treated trees may produce heavier crops and require a higher level of fertilizer application. Ensure that treated trees are not over-watered or subjected to drought stress. In some instances, treated trees may set excess fruit and careful attention should be given to thinning operations. When replanting a treated orchard, at least 3 years should elapse since the last application for Offset 250 Plant Growth Regulator. In orchards, which have been treated with collar drenches of Offset 250 Plant Growth Regulator, fresh soil should be provided to allow tree establishment and growth. Remove treated soil. An alternative is to avoid original tree-holes, and place young trees as far as practicable from the treated soil (minimum 1.5m). Where young trees are required to be planted in an established orchard which has been treated with collar drenches of Offset 250 Plant Growth Regulator remove treated soil and replace with fresh soil.

MIXING

Foliar Sprays: To a clean bucket of water add the required amount of Offset 250 Plant Growth Regulator and stir to make a smooth mix. Add slurry to half-filled spray tank of clean water. Add the required amount of non-ionic wetter (1000g/L) and agitate during the completion of filling. Frequent or constant agitation of the spray mixture is recommended. Wash out spray tank after use.

Collar Drench: Mix required volume of Offset 250 Plant Growth Regulator with recommended volume of water. Periodic agitation may be necessary to prevent settling.

APPLICATION

Foliar Sprays: Apply in a sufficient volume of water to ensure penetration of the spray and good coverage of target tissue, new green stem tissue in the case of apples. Apply in minimum volume of 1000L of water per ha. Non-ionic wetter (1000g/L) at 18mL/100L of water must be added to the final spray volume. It is not normally necessary to reapply the spray if rain follows soon after application.

Collar Drench: Uptake of Offset 250 Plant Growth Regulator is most efficient when it is applied to soil which receives adequate water and where there is a high density of feeder roots.

Apply required amount of Offset 250 Plant Growth Regulator in 0.5 to 2L of water per tree on to the soil/trunk crack line evenly around the base of the trunk. Where specific rates per tree are not given, the application rate per tree is determined by dividing the application rate per ha by the number of trees per ha. The volume of diluted drench required for even application without runoff will vary with the size of the tree and with soil type and moisture content. Use the higher volume on large trees.

Ensure that trees are adequately irrigated following treatment under dry conditions. Individual trees, which are smaller than average should be left untreated or given a proportionally smaller dose of Offset 250 Plant Growth Regulator.

Trickle Point: Apply in 200-300mL water per tree beneath each trickle or dripper point or through the trickle irrigation system. Follow application with a short period of irrigation. Alternatively, the required amount of Offset 250 Plant Growth Regulator can be applied through the trickle irrigation system. Equal distribution of water between trees is essential for this method to give a uniform effect.

RETREATMENT

In some cases, control of growth may persist for more than one year. Retreat trees when normal growth resumes. Use the interval between the first treatment and the resumption of normal growth as a guide for retreatment in subsequent seasons.

COMPATIBILITY

Offset 250 Plant Growth Regulator is compatible with any of the following products: Nimrod[®], Omite[®] 300 W, Pirimor[®] or Dithane[®] M-45. However, mixing Offset 250 Plant Growth Regulator with more than any one of these products may give unpredictable results or may result in crop damage. If carbaryl is used as a thinning spray on apples, allow 21 days before application of Offset 250 Plant Growth Regulator.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND THE ENVIRONMENT

Do not contaminate streams, rivers or waterways with the chemical or used container.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, dry, well-ventilated place. 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. If an approved waste management facility is not available bury the empty packaging 500mm below the surface in disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in accordance with relevant Local, State or Territory government regulations. Do not burn empty containers or product.

SAFETY DIRECTIONS

Avoid contact with the eyes and skin. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

FIRST AID

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

SAFETY DATA SHEET (SDS)

Additional information is listed in the Safety Data Sheet (SDS), which is available from the supplier.

CONDITIONS OF SALE

Any provisions or rights under the Australian Consumer Law which cannot be excluded by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies expressed or implied under common law, statute or otherwise, in relation to the sale, supply, storage, use or application of this product are excluded. Ruralco Holdings Ltd and/or its associated entities shall not accept any liability (including consequential loss and/or negligence) for any loss or damage connected with the sale, supply, storage, use or application of this product except for liability which cannot be excluded by statute.

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life.

If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Do not handle until all safety precautions have been read and understood. Avoid breathing fumes, mists, vapours or spray. Do not get in eyes, on skin, or on clothing. Wash contacted areas thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment. Wear protective gloves, protective clothing and eye or face protection. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Take off contaminated clothing and wash before reuse. IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice. If skin irritation occurs: Get medical advice. If eye irritation persists: Get medical advice.: Collect spillage. In case of fire, use carbon dioxide, dry chemical, foam, water fog, coarse water spray, dry sand. Store in a closed container. Store locked up. Protect from sunlight. Store in a well-ventilated place. Keep cool. If they can not be recycled, dispose of contents to an approved waste disposal plant and containers to landfill.

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

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