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CAUTION

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

ALBAUGH AVOBALANCE
PLANT GROWTH REGULATOR

ACTIVE CONSTITUENT: 250 g/L PACLOBUTRAZOL

To reduce vegetative growth in mango, stone fruit and apple trees
IMPORTANT: READ THE ATTACHED LEAFLET/BOOKLET BEFORE USE

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PLANT GROWTH REGULATOR

ALBAUGH®
your alternative

Directions for Use

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: **Trees 3-6 yrs old:** Light sands, Clay, Red Volcanics **Trees over 6yrs:** 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 3 m 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 Paclobutrazol 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	500 mL to 1 L/ha Add 18 mL of an approved wetting agent per 100 L water in final spray volume	Apply in a sequential spray programme 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 4 L/ha per season. **CAUTION:** If using carbaryl as a chemical thinning agent, plan to allow 21 days between application of carbaryl and Paclobutrazol.
Peaches, Nectarines		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 2 L/ha (trickle) or with 2 - 3 L/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		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.

Crop & Situation	State	Application Method	Rate	Critical Comments
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

Albaugh Avobalance Plant Growth Regulator is a systemic growth regulator that reduces internode lengths of new shoots and causes earlier formation of terminal buds. Use of Albaugh Avobalance 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 Albaugh Avobalance 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 Albaugh Avobalance. In orchards, which have been treated with collar drenches of Albaugh Avobalance, fresh soil should be provided to allow tree establishment and growth. Remove treated soil. An alternative is to avoid original treeholes, and place young trees as far as practicable from the treated soil (minimum 1.5 m).

Where young trees are required to be planted in an established orchard which has been treated with collar drenches of Albaugh Avobalance, remove treated soil and replace with fresh soil.

MIXING

Foliar Sprays: To a clean bucket of water add the required amount of Albaugh Avobalance 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 (1000 g/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 Albaugh Avobalance 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 1000 L of water per ha. Non-ionic wetter (1000 g/L) at 18 mL/100 L 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 Albaugh Avobalance 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 Albaugh Avobalance in 0.5 to 2 L 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 Albaugh Avobalance.

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 Albaugh Avobalance 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

Albaugh Avobalance is compatible with any of the following products: Nimrod®, Omite® 300 W, Pirimor® or Dithane® M-45. However, mixing Albaugh Avobalance 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 Albaugh Avobalance.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND THE ENVIRONMENT

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

STORAGE AND DISPOSAL

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.

Store in the closed, original container in a cool, dry, well-ventilated place. DO NOT store for prolonged periods in direct sunlight.

1 L only

Rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemical 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 for appropriate disposal to an approved waste management facility.

If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers and product. DO NOT re-use empty container for any other purpose.

All non-refillable containers (unless otherwise specified)

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemical 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 for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers and product. DO NOT re-use empty container for any other purpose.

Envirodrum - Micro Matic Valve (110 L)

Store the original sealed Envirodrum in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the Envirodurum with water or any other foreign matter. After each use of the product please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return the empty Envirodrum to the point of purchase.

Refillable containers (1000 L only)

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

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; New Zealand 0800 764 766.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS) which is available from the supplier and accessible from the Albaugh website albaugh.com/au

TERMS AND CONDITIONS OF SUPPLY, SALE AND USE

Many factors can affect or influence the activity of this product, including, but not limited to: weather and soil conditions, crop variety, treatment timing, water volume, application rates, spraying techniques, crop rotation, regional factors, and the occurrence and development of strains resistant to the active ingredient.

Under certain circumstances, changes in activity or crop damage can occur. The manufacturer or supplier is unable to accept liability in these circumstances. All goods supplied by us are of a high grade and we believe them to be suitable for the purpose for which we expressly supply them: but we cannot exercise any control over their mixing, use or application which may affect the performance of the goods. All conditions and warranties statutory or otherwise as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application, or use. These conditions cannot be varied by our staff, agents, or the re-sellers of the product whether or not they supervise or assist in the use of such goods.

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