

# WARNING

Keep out of reach of children

# AVOCET™



A growth regulator for cherries, apricots, peaches, nectarines, avocados (Hass), certain turf grass species and suppression of annual poa in turf

  
15-05-2019

Active Ingredient: Contains 250g/litre paclobutrazol in the form of a suspension concentrate.

Registered pursuant to the ACVM Act 1997, P9471.

See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved under HSNO Act 1996, HSR000779.

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

**Manufactured by:**

FINE AGROCHEMICALS LIMITED  
Hill End House Whittington  
Worcester WR5 2RQ UK

The logo for 'fine' agrochemicals, with the word 'fine' in a green, lowercase, sans-serif font and a small green leaf icon above the letter 'i'.

**Distributed by:**

The logo for 'agritrade', featuring a stylized 'a' icon above the word 'agritrade' in a bold, lowercase, sans-serif font.

411 Blenheim Road  
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Phone (03) 341 4587  
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Net contents: 1 Litre, 5 Litres



**For professional use only**

**READ THE LABEL COMPLETELY BEFORE USE**

For specialist advice in an emergency only, call 0800 CHEMCALL (0800 243 6225)

This product must not be used for any purpose, or in any manner, contrary to this label unless authorised under appropriate legislation. Do not handle until all safety precautions have been read and understood.

**HAZARD CLASSIFICATION:** 6.1D, 6.3B, 6.4A, 6.8B, 6.9B, 9.1C, 9.3C

**TOXICITY:**

Warning - Harmful if swallowed, inhaled or absorbed through the skin. May cause eye irritation or mild skin irritation. May cause liver damage or reproductive/development damage from prolonged or repeated oral exposure.

**ECOTOXIC:**

Harmful to aquatic life with long lasting effects. Do not apply into or onto water. Avoid contamination of any water supply with product or empty container. Harmful to terrestrial vertebrates.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

**HANDLING PRECAUTIONS:**

**STORAGE:** Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals. Stores containing 1000 litres of Avocet are subject to secondary containment and signage, and more than 1000 litres require emergency response plans.

**PERSONAL PROTECTION:** Avoid skin and eye contact. Do not breathe spray mist. Do not eat, drink or smoke while using. Use only outdoors or in a well-ventilated area. Wear protective clothing such as face shield, impervious gloves, overalls and boots when handling. Wash splashes of concentrate from skin immediately. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash contaminated clothing before re-use.

**EQUIPMENT:** Apply using well maintained and accurately calibrated equipment. Clean equipment thoroughly after use.

**DISPOSAL:** Triple rinse empty container and add rinsate to spray tank. Take container to Agrecovery collection site. Alternatively, crush and bury in a suitable landfill. Dispose of product only by using according to the label, or at an approved landfill.



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**First Aid:**

If swallowed: Call the National Poisons Centre 0800 POISON (0800 764 766) or a doctor if you feel unwell.

If on skin: Remove contaminated clothing and flush skin and hair with running water.

If in eyes: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled: remove to fresh air and keep at rest in a position comfortable for breathing.

If skin/eye irritation occurs, or you feel unwell, get medical advice/attention.

**Spillage:** Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert materials and place in waste containers. Dispose of waste safely.

**Transport:** Do not carry more than 1 litre of AVOCET on a passenger service vehicle.

## GENERAL INFORMATION:

AVOCET is a systematic plant growth regulator which acts by reducing gibberellin production. When applied to the soil adjacent to fruit trees AVOCET is absorbed by roots and tree extension growth is controlled by reduction of the internode lengths of new shoots and by earlier formation of terminal buds. Although AVOCET reduces extension growth in the first year of treatment, leading to less pruning, responses in the subsequent year following treatment can be greater due to the reduced vigour of the treated tree and "carry over" effect of AVOCET. Fruit bud production, fruit colour and harvest yield can also be favourably influenced.

**It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food. Notice: Maximum Residue Levels for Agricultural Compounds.**



A handwritten signature in blue ink, appearing to be "John G. ...".

15-05-2019

## ORCHARD CROPS

### DIRECTIONS FOR USE:

AVOCET is best suited to intensively managed orchards where growth control and fruit regulation additional to rootstock influence is a prime requirement.

The effect of AVOCET on fruit trees is similar to a dwarfing rootstock. Therefore rootstock effectiveness needs to be taken into account when selecting use rates of AVOCET, i.e. cherries on Mahalab rootstock requires less AVOCET than other rootstocks.

AVOCET use should begin only when trees are approaching optimum size but a year or two before overcrowding and competitiveness between trees occurs.

AVOCET frequently increases fruit bud number and can advance flowering date. Where cross pollination is required, pollinating trees should also be treated so that blossom times are synchronised.

In some instances treated trees may set excess fruit and careful attention should be given to thinning operations.

Treated trees may produce heavier crops and require a higher level of fertiliser application, particularly where high yields have been experienced for a number of seasons, on lighter soil types.

### CAUTIONS:

- AVOCET is NOT suitable for old, low vigour or unhealthy trees.
- Do not apply to trees known or suspected to be suffering from disease i.e. phytophthora.
- If a tree is under stress then AVOCET should NOT be used. Stress can be caused by moisture shortage due to a lack of rain or inadequate irrigation, high temperature, salinity, moisture excess due to high water table, severe or successive frosts, poor fertility caused by imbalance of major or minor nutrients, weed competition, diseases, insects, inappropriate herbicide use or mechanical damage.
- Very large mature trees or vigorous trees can be more difficult to control and results may be unsatisfactory.
- When replanting a treated orchard, at least three years should elapse since the last application of AVOCET. In orchards which have been treated as a collar soil drench, 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 replacement trees are required to be planted in an established orchard which has been treated with collar drenches, remove treated soil and replace with fresh soil.
- Do not apply AVOCET to young trees which have recently been interplanted in orchards and which are required to make vigorous growth.
- Individual trees which are smaller than the average being treated, should be left untreated for a season or two, or given a proportionally smaller dose of AVOCET.
- Do not use in orchards under-planted with any other crop.

**TIME OF APPLICATION:**

**Cherries and Apricots:** AVOCET should be applied during the time between fruit harvest (post-harvest) and mid-August. Application to heavy or high organic matter soils should be early within that period.

**Peaches and Nectarines:** Application can be extended until September.

**Avocado (Hass):** Autumn or early winter applications are preferred. Late spring applications can lead to results not being seen that season.

**METHOD OF APPLICATION:**

**Preparation for soil drench:** Only treat trees growing in weed free strips or squares. Remove any weeds or leaf litter before treatment. If mulched, remove from around the tree base before treatment. Form a furrow 2-3cm deep encircling the trunk, no greater than 0.5 metres from the trunk, or form a collar around the base of the trunk. AVOCET uptake is most efficient when it is applied to soil which receives adequate water and where there is a high density of feeder roots. For trickle point applications, the hard pan at the dripper end may need to be lightly forked to allow even penetration. If more than one dripper feeds a tree, ensure the correct tree dose is divided by the number of drippers, and ensure even dosage beneath each dripper, by diluting in 500ml of water at each point.

**Mixture preparation:** Invert the container several times before measuring out to ensure the concentrate product is well-mixed. The volume of diluted ready-to-use mix required for even application without run-off will vary with the size of the tree and with soil type and moisture content. Use the higher volume on large trees. Apply the required amount of AVOCET in 500ml – 2 litres of water per tree onto the soil/trunk crack line or prepared furrow evenly around the base of the trunk.

**RATES OF APPLICATION:**

(AVOCET per tree)

Age of tree	Cherries mL	Apricots mL	Nectarines & Peaches mL	Avocados (Hass) mL (see Note*)
Young trees 3 to 5 years	1-3	2-4	2-4	1.5-2.0/sq m
Established trees (5 to 10 years)	3-6	4-8	4-6	2.0-3.0/sq m
Large trees (older than 10 years)	6-8	8-10	not recommended	not recommended

**NOTE:**

- Light to medium soils – use the lower rates
- Heavy or organic soils – use the higher rates
- High vigour trees – use the higher rates

**\*RATES (Avocado)**



Determine rates by measuring the canopy area of the tree. For even blocks of trees randomly select a minimum of 10 trees, measure height x width in metres then calculate by multiplying measurements to give a canopy area in sq. m i.e. 4.2 m high x 3.6 m wide = 15.12 sq. m. For blocks of mixed age and vigour trees, calculate each tree canopy. Use 1.5-3.0 ml/sq. m of tree canopy area. Results on large mature avocado trees may not be as obvious as on younger trees. On heavy or organic soils and where older, large trees are involved, response to AVOCET application can be delayed. This should be taken into account when choosing the re-treatment regime.

#### **STONEFRUIT:**

Dilute the required amount of AVOCET in 500 ml – 1 litre water per tree and apply as a soil drench having cleared away leaves and other plant debris. In high density plantings, apply half the dose in a narrow (5 cm) band on both sides of the tree row.

- (a) Drip or micro irrigation – apply diluted AVOCET below “drippers” or, in the case of micro-jets or micro-sprinklers, apply the dose around the base (collar) of the tree.
- (b) Overhead sprinklers, flood irrigation or no irrigation – apply diluted AVOCET around the base (collar) of the tree.

#### **AVOCADO (HASS):**

Apply as a collar soil drench. Clear away leaves and debris and form a furrow 2-3cm deep encircling the trunk no greater than 0.5 metres from the trunk. Avoid applying to the drip line or anywhere between trees. Use 1-2 litres of water to evenly apply the dose around the tree.

#### **RETREATMENT:**

Treatment programmes will differ between different fruit species, and will also be different between first and subsequent years of application. This is because carry-over effects may reduce the required total dose in the second and subsequent years. In some cases control of growth will persist for more than one year. Retreat trees just prior to resumption of normal growth. Use the interval between the first treatment’s resumption of normal growth as a guide for retreatment in following seasons. Apply the same rate the following year ONLY if new shoots grow strongly by the end of the first season’s treatment. Retreatment is often not required until the second or third year after initial treatment; this can be judged by regrowth rates. Consult your local advisor on retreatment rates. If extension growth has been severely repressed, retreatment should be postponed for one year. On heavy or organic soils and where older, large trees are involved, response to AVOCET application can be delayed. This should be taken into account when choosing the retreatment regime.

## TURF DIRECTIONS FOR USE



For use on **bent grass, perennial ryegrass, Kentucky bluegrass.**

1. To reduce vertical growth, enhance colour and evenness, and improve playing surface speed.

Apply AVCOSET at 0.75 – 1.5 litres/ha at 4-8 week intervals when turf species are actively growing. Use a minimum water volume of 500 litres/ha for even coverage.

Irrigate with 4-6 mm of water within 24 hours of application. Apply only when there is adequate soil moisture to ensure best growth regulation effect.

2. To suppress annual poa (*Poa annua*) and allow a gradual transitioning to desirable cool-season turf, including bent grass, perennial ryegrass and Kentucky bluegrass. Apply AVOCET at 1.5 – 2.25 litres/ha. Make no more than 2 applications in spring, and 1 application in autumn. Use the lower rate where the percentage of annual poa is high and the resultant yellowing would be unacceptable. Apply in a minimum water volume of 500 litres/ha for even coverage. Irrigate with 4-6mm of water within 24 hours of application. Continue normal cultural practices after application. However do not scarify and topdress while annual poa is undergoing growth regulation.

### General comments on turf:

Suppression of annual poa - The degree of suppression will be influenced by turf grass management practices, climate, soil type, grass variety and annual poa biotype. The growth and competitive ability of annual poa will be reduced within 1-2 weeks of application. After treatment the annual poa will discolour (yellow-brown) and stop or slow growth and allow the desirable turf species to dominate. Application 1-2 weeks prior to seed head emergence will reduce seedhead visibility but not seedhead formation.

Repeat applications 6-8 weeks apart are required where annual poa content is high and for long term control. (see Constraints). Use in areas containing more than 70% annual poa will result in widespread discolouration of the turf surface and may not appear acceptable to the user. Use of other cultural techniques are encouraged to lower the percentage of annual poa below 70% before treating.

**Overseeding:** Overseeding is recommended to hasten the conversion from annual poa to more desirable grasses. To avoid stunting the growth of desirable seedlings, allow at least 2 weeks following treatment before overseeding, and in newly overseeded areas, make treatments at least 6 weeks after overseeding.

### Constraints:

- Do NOT apply when daytime temperatures are consistently above 32°C, or when turf is stressed from heat, cold, or lack of moisture.
- Do NOT apply when soils are waterlogged as fixing onto the soil will not occur and the paclobutrazol may move with heavy rainfall or irrigation.
- Do NOT apply when the turf has been thinned from disease or insect infestation or damaged from aerification or scarifying.

- Do NOT overdose especially under the branch spread of trees and shrub.
- Do NOT scarify and topdress greens whilst annual poa is undergoing growth regulation.
- Do NOT use on sportsfields under stress from heavy traffic where maximum growth potential of turf is desired.
- Do NOT apply to newly sprigged or sodded turf until grass has knitted down and rooted firmly.



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15-05-2019

**CONDITIONS OF SUPPLY- Read before buying and using.**

If these conditions are unacceptable, return at once unopened.

This product is of a high grade and conforms to the chemical description on the label. However, all warranties of any kind, expressed or implied, with respect to the fitness for purpose (including crop injury, ineffectiveness or any other unintended consequence), merchantable quality or any other matter, are expressly excluded. To the extent permitted by law, buyers and/or users accept that neither Fine Agrochemicals Limited as the manufacturer, Agritrade (part of PGG Wrightson Ltd) as distributor, nor any other of its distributors, accept any liability (including in negligence, tort and equity) or responsibility whatsoever for any loss, damage or injury whether direct, indirect or consequential, howsoever arising in connection with this product including without limitation storage, application, handling or use. The Terms of Sale that apply to this product are located at [pggwrightson.co.nz/our-company/View our Customer Account Terms](http://pggwrightson.co.nz/our-company/View our Customer Account Terms).

BATCH NUMBER:

DATE OF MANUFACTURE:



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