

STEM SHOT™ AVOCADO

A SYSTEMIC FUNGICIDE FOR THE CONTROL OF *PHYTOPHTHORA SP.* AND *PYTHIUM SP.* ROOT ROTTS IN AVOCADOS.

Contains 400 g/litre phosphorus acid as the mono and di potassium salts in the form of a soluble concentrate.

NET CONTENTS **10 Litres**

HARMFUL - KEEP OUT OF REACH OF CHILDREN. READ LABEL CAREFULLY BEFORE USING STEMSHOT AV-1
STEMSHOT AV-1 IS ONLY TO BE APPLIED TO AVOCADOS USING THE STEMGUN AND IN ACCORDANCE TO THE RECOMMENDATIONS LISTED BELOW.

Use in accordance with Directions for Use. **Active Ingredient:** Contains 400 g/litre phosphorus acid as the mono and di potassium salts in the form of a soluble concentrate.

DIRECTIONS FOR USE:

HSNO CLASS: 6.3B, 6.4A, 9.1D

TOXICITY: HARMFUL: MAY CAUSE SKIN IRRITATION
HARMFUL: MAY CAUSE EYE IRRITATION

ECOTOXICITY: HARMFUL TO AQUATIC ORGANISMS. Avoid contamination of any water supply with product or empty container.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Avoid contact with skin and eyes, and inhalation of spray mist. Do not eat, drink or smoke while using. Wash hands and face thoroughly after use and before eating or drinking.

STORAGE: Store in original container, tightly closed and in a locked, dry, cool, well ventilated area away from foodstuffs, feeds, seeds, fertilizers, insecticides, or fungicides used for the protection of crops. Storage must be in accordance with the current

version of NZS 8409 Management of Agrichemicals.

SHELF LIFE: When stored appropriately, this product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

SPILLAGE: Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste container. Wash area with water and absorb with further inert material. Dispose of waste safely (such as a suitable landfill).

DISPOSAL: Triple rinse container and add residue to applicator gun. Recycle the container if possible, otherwise crush and bury empty container in a suitable landfill. Avoid contamination of any water supply with chemical or empty container.

FIRST AID: If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin contact occurs, remove contaminated clothing and flush skin with running water. If splashed in eyes, wash out immediately with water.

COMPATIBILITY: The product is ready to use and should not be mixed with other materials. (Shake well before use)

WITHHOLDING PERIODS: Avocados – Nil
It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residues Limits of Agricultural Compounds) Food Standards. It is an offence to use this product on animals.



IN A TRANSPORT EMERGENCY: DIAL 111. In case of emergency, phone 0800 243 622 or 0800 CHEMCALL

440mm wide

DIRECTIONS FOR USE ON AVOCADOS. (TRUNK INJECTION):

PRECAUTIONS:

- To reduce the risk of burning new growth do not prune trees before injection.
- Do not inject trees during flowering or when trees are in soft spring flush.
- Do not cut back the canopy of injected trees

APPLICATION GUIDELINES FOR THE STEMEX™ STEMGUN™ INJECTION SYSTEM

1. **Time of application.** The first injection should be made in August or September to give the root flush protection and improve the quality of the spring growth flush. The second injection should be applied between mid January and mid February. For maintenance purposes apply a single injection in August or September.

2. **Determining the volume to be applied.** Measure the canopy diameter of the individual tree (drip line to drip line). Inject trees using concentrated STEMSHOT AV-1 using the volume indicated in the table below which is based on a volume in ml per metre of canopy diameter.

Canopy diameter of tree in metres	2	3	4	5	6	7	8	9	10	11	12	13	14
Skeletal trees: Injection volume in ml per tree	20	30	40	50	60	70	80	90	100	110	120	130	140
Normal use: Injection volume in ml per tree	10	15	20	25	30	35	40	45	50	55	60	65	70

3. **Injection hole preparation:** a) **Tree diameter up to 750mm:** Drill a single hole using a 10mm (3/8") auger style drill bit up to 500mm in length. The hole should be drilled through the centre of the trunk just above ground level. The hole should be drilled almost completely through the stem to within 50mm of the opposite surface. b) **Tree diameter > 750mm:** Drill a second hole if necessary in the same way as for a) 300mm above the first hole at right angles (90 degrees) to the original hole. In this situation, half of the total tree volume requirement should be injected in each hole (inject the first hole and insert a stopper plug before drilling the second hole in order to prevent the injected material from exiting through the first hole).

4. **The STEMEX™ STEMGUN™ injection system.** This system forces concentrated STEMSHOT AV-1 into the tree trunk under high pressure (up to 2000 psi). It is not dependent on the transpiration pull of the leaves to take the product into the trunk reducing the likelihood of leaf scorching and twig dieback. The STEMEX™ method of injection is very rapid (3-4 minutes/tree), enabling up to 120 trees to be treated per day.

5. **The STEMGUN™ injection process.** (Use concentrated STEMSHOT AV-1 only). A fitting attached to the STEMGUN™ is screwed into the hole drilled in the tree trunk. Undiluted product from the STEMSHOT AV-1 container is drawn into the STEMGUN™ by pulling back the plunger. This allows 100mls (or a lesser volume if required) to be drawn into the STEMGUN™ barrel. Using slow deliberate strokes of the STEMGUN™ handle product is pumped into the trunk at a rate of 3 ml/s per stroke.

6. **After injection.** When the required amount of STEMSHOT AV-1 has been injected, the fitting is unscrewed from the tree and a 10mm STEMEX™ plastic plug inserted into the hole to seal it off from insect colonization. Because the injected product "disperses" with each pumping stroke, there is no build up of pressure or "run out" effect when the injector fitting is removed. Holes heal rapidly but the same hole can be reused for subsequent injections when required.

TRUNK INJECTION (SYRINGE)

Skeletal Trees (First year): Create a stock solution of 750ml of product diluted with 1250ml of water. Use 20ml of stock solution per metre of canopy diameter.

Other Situations: Make a stock solution of 375ml of product diluted with 1625ml of water. Use 20ml of stock solution per metre of canopy diameter. Inject the trees when the Spring vegetation flushes have greened and hardened. Injection in summer is effective at any time but is best made from late January through to the end of February.

Trunk Injection (Avocados): The principle of the syringe operation is that the fluid is forced into the tree by compression supplied by the syringe. Use a 50ml syringe, as it is important that there is a 2:1 air to liquid ratio. When filling the syringe with 20ml, the plunger should be pulled completely back to fill the remainder with air (the compressed air in the syringe will help force the 20ml of liquid into the tree). Insert the syringe into a predrilled (dependent on type of syringe) diameter hole predrilled in the trunk. Leave the syringe in place until the solution is absorbed into the tree. Inject the tree with 20ml of solution per metre of tree canopy diameter. When injecting more than one 20ml dose, space the syringe holes evenly around the trunk. Do not inject larger quantities of StemShot AV-1 stock solution or use a lesser number of syringes than instructions specify. After absorption remove the syringe and fill the hole with appropriate closure, such as putty or dowel material.

STEMEX™ and STEMGUN™ are the trademarks of Omnia Primaxa Ltd, via Omnia, PO Box 201041 Auckland Airport, Manukau 2150

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See <http://realisafe.nzfsa.govt.nz/web/public/acvm-register> for registration conditions.

Approved pursuant to the HSNO Act 1996, approval code HSR000732
See www.ernanz.govt.nz/search-databases/Pages/controls-search.aspx for controls applying to the substance.

100mm deep

YOUR PROOF

job#: 140574
name: 01 StemShot AV-1 10L
client: Primaxa
date: 19/07/2006

This proof is **NOT** a true representation of the final colours that will be printed

OK to proceed
 Further proof required
sign: _____
date: _____

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AV-1

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440mm wide

OPERATING INSTRUCTIONS FOR STEMGUN INJECTION SYSTEM

- Place container on its side with this panel facing up.
- Remove the bung carefully to avoid any product loss.
- Attach StemGun® delivery tube using the threaded adaptor and ensure a tight seal.
- After use, replace the bung and dispose of the container in accordance with local conditions. Flush the StemGun® in accordance with the StemGun® instructions.

Registered to Omnia Primaxa, T/A Omnia
Freephone 0800 774 629 www.omnia.net.nz
Manufactured by Omnia PO Box 201041
Auckland Airport, Manukau 2150.

Conditions of sale:
The use of this product being beyond the control of the suppliers, no warranty expressed or implied is given by Omnia 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 Omnia accept no responsibility whatsoever resulting from the use of this product.

omnia
NUTRIOLOGY

BATCH NO
DOM

100mm deep

Dieline

PMS 485

PMS 383

PMS 5747

Black

PMS 369 C