



**HARMFUL**  
**KEEP OUT OF REACH OF CHILDREN**

# **STEMSHOT AV- 1™**

**FUNGICIDE**

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

**A systemic fungicide for the control of *Phytophthora sp.* and *Pythium sp.* root rots in avocados.**



Registered to:  
ADN Limited  
Level 8, 55-65 Shortland St  
PO Box 7246 Wellesley St  
Auckland.  
Telephone: 09 270 8870  
Facsimile: 09 270 8871

**In an emergency (All hours)**  
**Call 0800 CHEMCALL 0800 243 622**

**In a transport emergency**  
**Call 111**

Net:

Batch:

Date of Manufacture:



## READ LABEL CAREFULLY BEFORE USING STEMSHOT AV-1

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

<b>HSNO CLASS: 6.3b, 6.4A, 9.1D.</b>
<b>TOXICITY:</b> <ul style="list-style-type: none"><li>• HARMFUL: MAY CAUSE SKIN IRRITATION.</li><li>• HARMFUL: MAY CAUSE EYE IRRITATION.</li></ul>
<b>ECOTOXICITY:</b> <ul style="list-style-type: none"><li>• HARMFUL TO AQUATIC ORGANISMS. Avoid contamination of any water supply with product or empty container</li></ul>
<b>PRECAUTIONS:</b> <ul style="list-style-type: none"><li>• KEEP OUT OF REACH OF CHILDREN.</li><li>• Avoid contact with skin and eyes, and inhalation of spray mist.</li><li>• <b>Do not</b> eat, drink or smoke while using.</li><li>• Wash hands and face thoroughly after use and before eating or drinking.</li></ul>
<b>STORAGE:</b> <ul style="list-style-type: none"><li>• Store in original container, tightly closed and in a locked, dry, cool, well ventilated area away from foodstuffs, feeds, seeds, fertilisers, insecticides, or fungicides used for the protection of crops.</li><li>• Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals.</li></ul>
<b>SHELF LIFE:</b> <ul style="list-style-type: none"><li>• 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.</li></ul>
<b>SPILLAGE:</b> <ul style="list-style-type: none"><li>• 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)</li></ul>
<b>DISPOSAL:</b> <ul style="list-style-type: none"><li>• Triple rinse container and add residue to applicator gun. Crush and bury empty container in a suitable landfill.</li><li>• Avoid contamination of any water supply with chemical or empty container.</li></ul>

**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



**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
<b>Skeletal trees:</b> Injection volume in ml per tree.	20	30	40	50	60	70	80	90	100	110	120	130	140
<b>Normal use :</b> 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 mls 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 in 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.

STEMEX™ and STEMGUN™ are the trademarks of Primaxa Ltd, 265 James Fletcher Drive, Otahuhu, Auckland.

**CONDITIONS OF SALE:** The use of STEMSHOT AV-1 being beyond the control of the suppliers, no warranty expressed or implied is given by ADN Limited 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 ADN Limited accept no responsibility whatsoever resulting from the use of this product, except where the ADN Ltd Performance Guarantee applies.

Registered pursuant to the ACVM Act 1997, No P7450

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

Approved pursuant to the HSNO Act 1996, approval code HSR000732

See [www.ermanz.govt.nz/search/registers.html](http://www.ermanz.govt.nz/search/registers.html) for controls applying to the substance.