

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

**PinNACLE<sup>®</sup>**

**FUNGICIDE**

Contains: 500g/litre fluazinam in the form of a suspension concentrate

**For disease control in grapes, field tomatoes,  
potatoes, and vegetable brassicas**

191206

PLEASE READ ENTIRE LABEL BEFORE USE. SHAKE OR STIR WELL BEFORE USE.



**HSNO classifications: 6.1D (All), 6.1D (I), 6.3B, 6.5B, 6.8B, 6.9B (All), 6.9B (O), 8.3A, 9.1A (All), 9.1A (M), 9.2D, 9.3C**

**TOXIC, CORROSIVE:** Harmful if inhaled. Harmful if swallowed. Harmful in contact with skin. Causes mild skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

**FIRST AID:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor/physician/first aider. If exposed or concerned: contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Do NOT scrub skin. Take off contaminated clothing and wash it before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**PERSONAL PROTECTION:** Do not breathe mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

**ECOTOXIC:** Very toxic to aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container. Harmful to the soil environment. Harmful to terrestrial vertebrates.

**STORAGE:** Store locked up. Store in original container, tightly closed and in a dry, cool area away from foodstuffs. Store in accordance with NZS 8409 Management of Agrichemicals.

**DISPOSAL:** Triple rinse empty container placing rinse water in the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot or crush and bury in an approved landfill. Dispose of product only by using according to this label, or at an approved landfill or disposal facility.

**SPILLAGE:** Wear appropriate protective clothing. Exclude all bystanders from the vicinity of the spill, and prevent material from entering waterways. Contain liquid spills and absorb with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

**SAFETY DATA SHEET:** Additional information is listed in the Safety Data Sheet available from Lonza NZ Limited or [www.lonza.co.nz](http://www.lonza.co.nz)

**QUALIFICATION REQUIREMENTS:** Persons mixing, loading, applying, or otherwise handling Pinnacle must meet qualification requirements set out in the EPA Hazardous Substances (Hazardous Property Controls) Notice 2017.

**MIXING:** Invert container and shake well before use. Add the required amount of Pinnacle to the partly filled spray tank with agitator running and complete filling the tank with water.

**COMPATIBILITY:** Compatible with other commonly used fungicides and insecticides with the exception of alkaline materials, such as Bordeaux mixture or lime sulphur.

**RAINFALL:** Do not apply if rainfall is likely within 6 hours following application. Heavy rain following treatment may remove fungicide from treated plant tissue and if disease pressure remains high, earlier re-treatment may be necessary.

**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.**

**WITHHOLDING PERIODS:** Grapes 28 days, Field Tomatoes 42 days, Potatoes 14 days, Vegetable Brassicas do not apply after planting.

**RESISTANCE MANAGEMENT:** **GROUP 29 FUNGICIDE** Pinnacle contains a 2,6-dinitro-aniline fungicide with an uncoupling of mitochondrial oxidative phosphorylation mode of action. Though considered of low risk naturally occurring resistant strains of disease causing fungi could still develop from over use of this fungicide. To minimise this risk use Pinnacle strictly in accordance with the label instructions. See [www.resistance.nzpps.org](http://www.resistance.nzpps.org)

**GENERAL INFORMATION:** Pinnacle is a protectant fungicide for use as a preventative treatment against botrytis, downy mildew and phomopsis (dead arm) in grapes, botrytis, sclerotinia and late blight in field tomatoes and early blight, late blight and sclerotinia in potatoes. Pinnacle also controls powdery scab on potatoes and clubroot in vegetable brassicas when applied to the soil surface and incorporated prior to planting.

**It is an offence to use this product on animals.**

**DIRECTIONS FOR USE: GRAPES. Botrytis, Downy mildew and Phomopsis (dead arm) control.**

**Use 100 ml/100 litres of water as a high volume spray to the point of runoff.**

**FOR CONCENTRATE SPRAYING:**

1. Determine the correct high volume water rate for your crop load, target (full canopy or bunch-line) and canopy architecture.
2. Calculate the appropriate per hectare rate of Pinnacle based on using 100 ml/100 litres of water.
3. Adjust dilution rates accordingly to match the per hectare rate that would have been sprayed via high volume methods.

Target the full canopy or bunch-line and ensure complete coverage of the bunches and surrounding canopy.

Apply at early and late flowering, just prior to bunch closure and again in the period from the beginning of berry ripening up until 28 days before harvest. Use alternative fungicides, particularly for phomopsis control from the bud movement to pre flower period and for botrytis control during the pre-harvest period. Add a non ionic surfactant at a rate of 25ml/100 litres.

**DIRECTIONS FOR USE: Vegetable Crops**

CROP	DISEASE	RATE	CRITICAL COMMENTS
Field Tomatoes	Botrytis, Sclerotinia, Late Blight	750 ml/ha	Apply at early flowering and again approximately 14 days later, towards the end of flowering. Apply in a minimum of 500 litres water per hectare and increase if necessary to ensure complete coverage. The period of sclerotinia control is four to eight weeks, and after the second application of Pinnacle alternative approved fungicides may be required in high risk situations. For the control of late blight after flowering, use alternative approved fungicides for the remaining duration of the crop. Add a non ionic surfactant at a rate of 25 ml/100 litres.
Potatoes	Early Blight, Late Blight, Sclerotinia	200 - 250 ml/ha	Use 250 ml/ha at 7 - 10 day intervals for late blight and sclerotinia control or use 200 ml/ha plus 1kg mancozeb (800 grams ai)/ha if early blight is also likely. Use the shorter interval under severe disease pressure conditions. Apply when the crop has fully emerged but before any sign of disease, using sufficient water per hectare to obtain complete coverage. Add a non ionic surfactant at a rate of 25 ml/100 litres.
	Powdery Scab	4 litres/ha in 500 litres of water	Apply to cultivated ground prior to planting. Within 2 hours of application, incorporate thoroughly into the soil to a depth of 15 cm, using either a rotary hoe or power harrow.
Vegetable Brassicas	Clubroot	4 litres/ha in 500 litres of water	Apply to cultivated ground prior to transplanting. Ensure thorough incorporation to transplant root depth (not more than 10 cm) within 2 hours of applying, using a rotary hoe or power harrow. Soil should be moist at application and the crop transplanted within 2 days. At least 20 mm of overhead irrigation should be applied soon after planting to further assist the distribution of Pinnacle throughout the upper soil profile. Disease control may be reduced if longer transplant or irrigation intervals occur.

**NOTICE TO BUYER:** The manufacturer and vendors of Pinnacle warrant the formulation to contain the specified active ingredients within accepted tolerance when packed but make no warranty of any kind on the use of this material and accept no responsibility for results, whether the material has been used in accordance with directions or not.