

TOXIC, ECOTOXIC
KEEP OUT OF REACH OF CHILDREN

PinNACLE[®]

FUNGICIDE

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

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

170712

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

HAZARD CLASSIFICATION: 6.1C, 6.3B, 6.4A, 6.5B, 6.8B, 6.9B, 9.1A

APPROVED HANDLER: This product must be under the control of an approved handler - or locked up. See SDS for further details.

TRACKING/RECORD KEEPING: This product must be tracked and records of use as described in NZS 8409; Management of Agrichemicals must be kept. See SDS for further details.

DANGER: May be fatal if swallowed, inhaled or absorbed through the skin.

WARNING: May cause skin and eye irritation or allergic skin reaction so avoid contact with skin and eyes. May cause organ damage and reproductive/developmental damage from repeated oral exposure at high doses.

FIRST AID: If swallowed DO NOT induce vomiting. For advice contact the National Poison Centre on 0800 POISON (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. DO NOT scrub skin. If splashed in eyes, wash out immediately with water for at least 15 minutes. If inhaled, move victim to fresh air immediately. Begin artificial respiration if breathing has stopped.

PERSONAL PROTECTION: Avoid contact with skin or inhalation of spray mist. Gloves should be worn at all times. Wear eye protection when handling the concentrate. Ensure adequate ventilation when handling the concentrate. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work. DO NOT eat, drink or smoke while using this product. May cause skin and eye irritation or allergic skin reaction, avoid contact with skin and eyes. May cause organ damage and reproductive/developmental damage from repeated oral exposure at high doses.

ECOTOXIC: Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.

STORAGE: Store in original container, tightly closed, in a cool dry place, under lock and key and away from foodstuffs.

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

SAFETY DATA SHEET: Additional information is listed in the SDS available from Lonza NZ Limited or www.lonza.co.nz

Approved pursuant to the HSN0 Act 1996, No: HSR000500. See www.epa.govt.nz for approval conditions.

Registered pursuant to the ACVM Act 1997, No: P007697 See www.foodsafety.govt.nz for registration conditions.

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

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.

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