

# Protiva®

For the control of foliar diseases in wheat and barley, stem and crown rusts in ryegrass seed crops, black spot and powdery mildew in apples, black spot in pears, powdery mildew in winter squash and pumpkins, Sclerotinia in kiwifruit, brown rot in stonefruit (except cherries), scab in citrus and powdery mildew in grapes.



**Active Ingredient:** 500g/litre trifloxystrobin

**Chemical Group:** Strobilurin

**Formulation:** Suspension concentrate

**Pack Size:** 1 Litre

**Compatibility:** Protiva is compatible with most of the commonly used insecticides and fungicides. DO NOT add other products to Protiva when used over the flowering - early fruit set period.

**Protiva® offers dependable disease control:**

- ✓ Excellent protection over flowering.
- ✓ Highly rainfast.
- ✓ Long-lasting activity.
- ✓ No cross-resistance to most other fungicide groups currently in use.
- ✓ Low toxicity.
- ✓ Easy-to-use liquid formulation.

## About Protiva®

Protiva® is a mesostemic strobilurin fungicide with preventative activity for the control of foliar diseases in cereals, stem and crown rusts in ryegrass seed crops, black spot and powdery mildew in apples, black spot in pears, powdery mildew in winter squash and pumpkins, sclerotinia in kiwifruit, brown rot in stonefruit (except cherries), scab in citrus and powdery mildew in grapes. Protiva is compatible with IMC programmes based on Typhlodromus pyri.

**Compatibility:** Protiva is compatible with most of the commonly used insecticides and fungicides. DO NOT add other products to Protiva when used over the flowering - early fruit set period.

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:** Forage cereals – 28 days; Cereal grain – 49 days; Ryegrass seed crops – 35 days; Apples, pears - 70 days; Winter squash, pumpkins - 14 days; Kiwifruit - Do NOT apply after 30% flowering; Stonefruit (except cherries) - Do NOT apply after petal fall; Citrus (multi flowering) - 28 days; Citrus (Clementine/Satsuma mandarins) - 120 days; Grapes – 56 days.

**Application:** May be applied through all conventional orchard and boom spraying equipment. Maintain agitation during mixing and spray application.

IT IS AN OFFENCE TO USE THIS PRODUCT ON ANIMALS.

## Directions for use:

The rates suggested are for high volume spraying of a dilute spray without excessive run-off. For concentrate spraying adjust dilution rate accordingly. Do not add wetting agents to Protiva.

CROP	DISEASE	RATE/REMARKS
Wheat	Glume blotch, Leaf rust, Speckled leaf blotch, Stripe rust, Powdery mildew.	250ml/hectare. Apply preventatively or at the first sign of disease, in mixture with a registered fungicide from an alternative chemical group.
Barley	Net blotch, Ramularia leaf spot, Scald, Powdery mildew, Leaf rust.	250ml/hectare. Apply preventatively or at the first sign of disease, in mixture with a registered fungicide from an alternative chemical group.
Ryegrass seed crops	Crown rust, Stem rust.	250ml/hectare. Apply preventatively or at the first sign of disease, in mixture with a registered fungicide from an alternative chemical group.
Apples	Black spot Powdery mildew	Apply 10mL/100 litres of water. DO NOT add other Powdery mildew products (including wetting agents) when used over the flowering - early fruit set period. Protiva should be tank-mixed with a fungicide from an alternative chemical group.
Pears	Black spot	Apply as for apples
<p>Timing: For apples and pears apply Protiva as a preventative application at 7-9 day intervals during the period covering flowering to the end of extension growth. The 7 day interval is recommended when conditions are conducive to severe Black spot infection and during periods of rapid tree growth. If the interval exceeds 9 days and there has been a recent infection period, the addition of a DMI black spot fungicide product is required, used according to label recommendations. If a protectant fungicide follows a Protiva application, it should be applied no later than 7 days after the last Protiva spray. For Resistance Management apply Protiva in a maximum of two consecutive applications and do not exceed two total applications per season. Protiva should be tankmixed with a fungicide from an alternative chemical group.</p>		
Winter squash Pumpkins	Powdery mildew	Apply 125mL/ha in sufficient water to obtain uniform coverage. Apply no more than 2 applications, 14 days apart.
Kiwifruit	Sclerotinia	Apply 15mL/100 litres of water (minimum 300mL/ha) at 30% flowering.
Stonefruit (except cherries)	Brown rot	Apply 12.5mL/100 litres (minimum 250mL/ha) in a regular blossom programme from pink to petal fall inclusive. Thereafter apply alternative non-QoI fungicides through until harvest. For resistance management apply no more than 2 applications per season.
Citrus	Scab	Apply 10mL/100 litres as a full cover spray to the point of run-off. Make 2 applications, the first application at flowering/fruit set and the second up to 1 month after fruit set.
Grapes	Powdery mildew	Apply at a rate of 125ml/ha. Apply between pre-flowering and pre-bunch closure at 14 day intervals. Do not apply more than 3 applications of any QoI fungicide - including Protiva - in a season.