

FUNGICIDE



PROPLANT

Contains 722 g/l (62.9% w/w) propamocarb hydrochloride as a soluble concentrate formulation

A semi-systemic fungicide with protective action against *Pythium* spp, *Phytophthora* spp and *Peronospora parasitica* on a wide range of ornamental and edible crops and *Bremia lactucae* on lettuce

Product registration number: **MAFF 13359**

Label recommendation for foliar application to lettuce for control of downy mildew.

Approved for use on ornamentals and edible crops including aubergines, many brassicas, cucumbers, leeks, lettuce, onions, peppers and tomatoes.

Drench, dip or spray recommendation depending on the crop.

New in 2008:

- Revised harvest interval for protected lettuce ●

fargro[®]

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ALWAYS READ THE LABEL: USE PESTICIDES SAFELY

PROPLANT

- A semi-systemic fungicide for use against *Pythium* spp., *Phytophthora* spp. and *Peronospora parasitica* which cause damping-off, root and stem rots and downy mildew on a wide range of ornamental and edible crops and *Bremia lactucae* on lettuce.
- Can be applied as a preventative compost drench, incorporation, root and bulb dipping and as a foliar spray for lettuce.
- Protects the germinating seed, cutting, seedling, bulb or plant from infection.
- For use on ornamental plants, ornamental bulbs and many edible crops including aubergines, brassicas, cucumbers, leeks, lettuce, onions, peppers and tomatoes.

The following text is taken from the approved product label:

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

RESTRICTIONS OR WARNINGS

For application to tomato, pepper, cucumber and aubergine the following maximum concentrations must not be exceeded:

- a) by trickle irrigation or as a drench to crops grown in soil, compost or straw bales - 10 ml product per 10 litres water;
- b) as a drench to crops grown for propagation in synthetic substances - 2.5 ml product per 10 litres water;
- c) by trickle irrigation or as a drench to crops grown for cropping in synthetic substances - 2.5 ml product per 10 litres water.

For application by trickle irrigation to tomato, pepper, cucumber and aubergine grown for cropping in synthetic substances this product must not be applied in a re-circulating system.

For application as a dip treatment to ornamental bulbs, the maximum concentration must not exceed 30ml product in 10 litres water.

For application to lettuce a maximum concentration of 2.5ml product/litre water must not be exceeded.

The product must not be applied to lettuce crops grown in non-soil systems.

Do not use this product in a re-circulating irrigation/drip system.

PROPLANT can be used on most bedding plants, pot plants, nursery stock, bulbs and edible crops. On plants of unknown tolerance, test on a small scale first, particularly when using on young plants. To reduce damage it is recommended to wash any PROPLANT solution off the plants after application (not applicable to the foliar treatment of lettuce).

Do not apply under hot sunny conditions, during frost or when plants are under stress.

Where application is made to plant leaves, such as seedlings, then ensure leaves are rinsed with clean water after application. Do not rinse off when applied to lettuce leaves.

DISEASES CONTROLLED

PROPLANT is a soluble concentrate fungicide containing propamocarb hydrochloride. It is a semi-systemic fungicide for preventative use especially active against Oomycetes fungi of genera *Pythium*, *Phytophthora* and *Peronospora* causing damping-off, root and stem rot, leaf blight, fruit rot and downy mildew. It is applied as a preventative soil drench or by soil incorporation, seed dressing, dipping of bulbs and roots or foliar spraying. In humid soil, the product is well absorbed through the roots and transported acropetally.

CROP SPECIFIC INFORMATION

Methods and Rates of Application:

PROPLANT must be applied preventatively either as a soil drench or by incorporation into soil or compost to protect germinating seeds, seedlings, cuttings, pot or container plants and transplants. Also as a dip for bulbs and as a foliar spray on lettuce.

To achieve maximum distribution and effectiveness, soil or compost must be moist.

For drenching, use sufficient water volume to allow the product to penetrate thoroughly the rooting zone.

PROPLANT should not be applied to dry soil or compost.

Treated soil must be kept under normal moisture conditions to enable continuous absorption by the roots.

Apply PROPLANT as a drench through compost incorporation, irrigation systems or watering cans. Where irrigation systems are used, the product must not be used through a re-circulating system.

PROPLANT can also be used as a dip for bulbs and as a foliar spray on lettuce for the control of *Bremia lactucae*.

Compost incorporation:

Apply at 400 ml per m³ in 20-100 litres water.

During sowing:

Apply 10 ml per m² in 2 to 4 litres water on soil before or immediately after sowing.

At pricking out:

Apply 10 ml per m² in 2 to 4 litres water on soil before or immediately after pricking out.

At striking of cuttings:

Apply 10 ml per m² in 2 to 4 litres water on soil before striking cuttings.

Field grown bulbs :

Apply 15 ml per m² in 2 to 4 litres water

before planting. Drench soil then incorporate to 10-12 cm before planting.

Bulbs as a dip:

Use 30 ml in 10 litres water prior to planting. For full protection it is essential to drench soil which bulbs are to be grown in as well (please see directions above). Dip bulbs for 20 minutes prior to planting.

Foliar spray on lettuce:

Apply 1.5 l/ha in 1500 litres water immediately after planting out and repeat this application every 10 days.

Water volume:

Apply the recommended rate of PROPLANT in 2 to 4 litres of water per m² depending on humidity of the soil and deepness of substrate. For foliar spraying, apply 1.5 l/ha in 1500 litres water.

MIXING, SPRAYING AND COMPATIBILITY

MIXING:

Ensure that mixing container and/or sprayer is clean and in good working order.

Half fill container or sprayer with clean water. Add the required quantity of PROPLANT and begin agitation. Add the remainder of the water and mix thoroughly.

Once made up do not store.

Rinse all equipment well immediately after use as PROPLANT is corrosive.

COMPATIBILITY:

PROPLANT is compatible with tolclofos-methyl and may be applied as a combined treatment using 10 ml PROPLANT with 2 g of a 50% WP tolclofos-methyl based product (MAFF No. 07494) per m² in sufficient water (minimum 2 litres).

First dilute tolclofos-methyl before adding PROPLANT. Continuous agitation during the application is recommended.

APPLICATION RATES / TIMING

FOR USE ON ORNAMENTALS

Apply PROPLANT at the timings listed below and above or when disease pressure is expected to be high.

PROPLANT is a protectant fungicide only and little curative activity will be seen once infection has occurred.

FOR USE ON ORNAMENTALS (continued)

CROP	Maximum Individual dose	Maximum No. of treatments	Latest time of application / PHI
Ornamental plant production (Propagating material)	As a bulb dip - see 'other specific restrictions'	-	-
Ornamental plant production	i) 15ml/m ² in 2-4 l water, as a soil drench ii) 400ml/m ³ in 20-100 l water, compost incorporation	-	-

FOR USE ON EDIBLE CROPS

PROPLANT can be used on the following edible crops:

Aubergine, cabbage, calabrese, cauliflower, Chinese cabbage, Brussels sprouts, sprouting broccoli, leeks, onions, cucumber, tomatoes, peppers and lettuce.

CROP	Maximum individual dose	Maximum No. of treatments	Latest time of application / PHI
Brussels sprout	i) 10 ml/m ² in 2-4 l water, as a soil drench ii) 400 ml/m ³ in 20-100 l water, compost incorporation	One per crop	Before transplanting.
Cauliflower, Chinese cabbage, calabrese and sprouting broccoli	i) 10 ml/m ² in 2-4 l water, as a soil drench ii) 400 ml/m ³ in 20-100 l water, compost incorporation	One per crop	Before transplanting and four weeks before harvesting.
Cabbage	i) 10 ml/m ² in 2-4 l water, as a soil drench ii) 400 ml/m ³ in 20-100 l water, compost incorporation	One per crop	Before transplanting and 10 weeks before harvesting.
Onion and leek	i) 10 ml/m ² in 2-4 l water, as a soil drench ii) 400 ml/m ³ in 20-100 l water, compost incorporation	i) One per crop ii) One per crop	Allow 19 weeks before harvesting
Lettuce	1.5 l/ha in 1500 l water as a foliar spray	i) Protected: 3 per crop	21 days before harvest
		ii) Outdoor: 3 per crop	14 days before harvest
Cucumbers, peppers, tomato and aubergine i) Soil drench ii) Compost incorporation iii) Crops grown in soil, compost or straw bales iv) Crops grown for propagation in synthetic medium v) Crops grown for cropping in synthetic medium	10ml/m ² in 2-4 l water, 400 ml/m ³ in 20-100 l water Drench or trickle irrigation: 10 ml in 10 l water; 100-200 ml solution per plant. As a drench: 2.5 ml in 10 l water 2.0 litres solution per m ² at the cube stage 200 ml solution per plant at the block stage. Drench or trickle irrigation: 2.5 ml in 10 l water; 400-500 ml solution per plant.	Four per crop	Allow 14 days between last application and harvesting

SAFETY PRECAUTIONS

Operator Protection:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, FACE PROTECTION (FACESHIELD) AND RUBBER BOOTS when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS for compost and block compost incorporation and when applying as a drench using hand-held equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS, APRON), SUITABLE PROTECTIVE GAUNTLET GLOVES AND RUBBER BOOTS when bulb dipping and handling contaminated surfaces.

However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the inside of gloves.

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

Environmental Protection:

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

Storage and Disposal:

DO NOT RE-USE THIS CONTAINER FOR ANY OTHER PURPOSE.

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.

PROTECT FROM FROST.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

PROPLANT

A soluble concentrate formulation containing 722 g/l propamocarb hydrochloride

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

DO NOT BREATHE SPRAY.

To avoid risks to man and the environment, comply with the instructions for use.

IMPORTANT INFORMATION

FOR USE ONLY AS A HORTICULTURAL FUNGICIDE

Crops: Ornamental plant production, aubergine, cabbage, calabrese, cauliflower, Chinese cabbage, Brussels sprouts, sprouting broccoli, onions, leeks, cucumber, tomato, peppers and lettuce.

Max Individual Dose: Please refer to 'Directions for Use'

Max Number of Treatments: Please refer to 'Directions for Use'

Latest Time of Application: Please refer to 'Directions for Use'

Other Specific Restrictions:

For application to tomato, pepper, cucumber and aubergine the following maximum concentrations must not be exceeded :

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The product must not be applied to lettuce crops grown in non-soil systems.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

CONDITIONS OF SALE

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling mixing or use or the weather conditions before, during and after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded, and no responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

PROPLANT is a trade mark of Agriphar S.A.

Approval Holder:

Agriphar S.A.,
Rue de Renory 26/1
B-4102 Ougree, Belgium.
Tel: (UK) 01924 888149

Pack Size: 1 litre.

Outers of: 12 x 1 litre.

Safety data sheet available on request.

Distributed by Fargo Ltd. in the UK

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Emergency Phone for Proplant: 00 32 70 245 245