

# Proplant<sup>®</sup>

FUNGICIDE

**Propamocarb HCl 722 g/L; SL**

Semi-systemic fungicide for the control of *Pythium* spp, *Phytophthora* spp. and *peronospora parasitica*.



- Preventive **action**
- Pre-emergent application to soil
- **Semi-systemic fungicide** with strong rainfastness properties
- **No phytotoxicity**, very selective on all types of crops
- Not harmful to **young plants**

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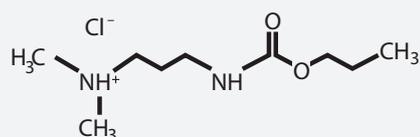
Proplant is a semi-systemic fungicide for use against Oomycetes fungi - *Pythium* spp. , *Phytophthora* spp. and *peronospora parasitica* which cause damping-off, root and stem rot and leaf blight. Proplant is applied as a soil drench to protect the germinating seeds, seedlings, cuttings, pot or container plants or transplants. Formulated as a soluble concentrate containing 722 g/L of propamocarb HCl.

## ■ Mode of action

A semi-systemic fungicide that belongs to carbamates chemical group. It acts by interfering with the synthesis of phospholipids and its fatty acids, thus interrupting the formation of the fungi membrane cell. It affects the mycelium growth, the production and germination of spores. Due to this specific mode of action, propamocarb is unlikely to generate resistance. Therefore, Proplant is effective in different stages of the fungus cycle: mycelial growth, sporulation and spore germination.

Proplant is applied as a preventative soil drench, absorbed by the roots and transported into the foliage thanks to its upward systemicity. These acropetally systemic properties grant a strong rainfastness. Proplant is safe and very selective.

Proplant can be used as part of IPM (Integrated Pest Management).



<b>Common name:</b>	propamocarb hydrochloride
<b>Chemical group:</b>	carbamate
<b>Chemical name (CAS):</b>	propyl N-[3-(dimethylamino)propyl] carbamate hydrochloride (1:1)
<b>FRAC group:</b>	28
<b>Uses (protected):</b>	Broccoli/calabrese, brussel sprout, cauliflower.

- Soluble in water, easy to apply, can be used in tank mix with other fungicides
- Ideal to manage resistance due to its multisite action
- Before using the product, read the label carefully

## ■ Use as a drench

Proplant **must** be used preventatively as a soil drench to protect germinating seeds, seedlings, cuttings, pot or container plants and transplants.

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 after sowing, before or immediately after pricking out. Apply the recommended rate of Proplant in 2 to 4 litres of water per m<sup>2</sup> depending on humidity of the soil and deepness of substrate.

## ■ Application rates

Crop (protected)	Maximum individual dose	Maximum number of treatments	Latest time of application / post harvest interval
Broccoli/calabrese brussel sprout, cauliflower ( <i>all protected</i> )	5ml/m <sup>2</sup> in 2-4 Litres of water, as a soil drench	1 per crop	Before transplanting

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## KEY BENEFITS

- Proplant has preventive effects
- An excellent anti-resistance tool as it inhibits various stages of Pythium and Phytophthora spp.
- A semi-systemic product: entering the plant via the root it moves rapidly upward through the vascular bundles. This characteristic grants strong rainfastness properties.
- Environmentally friendly: it has no effect on beneficial insects (including bees) and is quickly absorbed by soil micro-organisms.

## ABOUT ARYSTA LIFESCIENCE

*Arysta LifeScience is a global agricultural company specialising in the marketing and distribution of innovative crop protection and life science brands. Arysta LifeScience has a fully integrated biological and chemical portfolio to provide complete solutions to growers including biosolutions; fungicides; herbicides; PGRs, insecticides; and seed treatments. Arysta LifeScience is owned by Platform Specialty Products (www.platformspecialtyproducts.com), a global innovator of technologically advanced specialty chemical products and provider of technical services. For more information visit [www.arystalifescience.co.uk](http://www.arystalifescience.co.uk)*



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**Use plant protection products safely.  
Always read the label and product information before use.**

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