



DUPONT

The miracles of science®

**Premium protection
from Powdery mildew**

**DuPont™
Talendo®**
fungicide



A bunch of protection with DuPont™ Talendo® fungicide

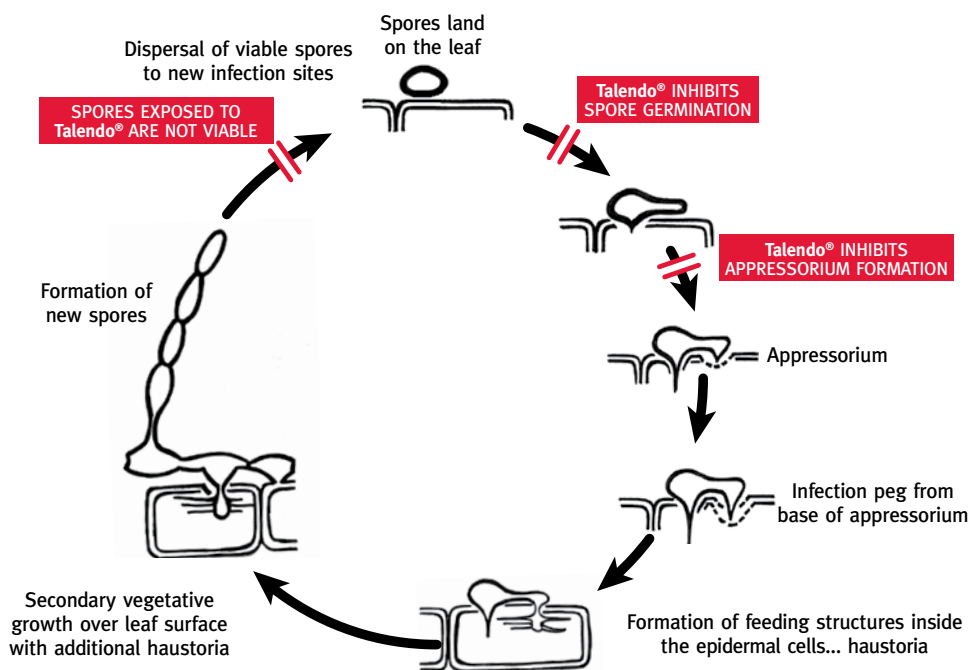


DuPont™ Talendo® fungicide gives you long-lasting protection for your crop against the damage caused by Powdery mildew infection.

- Strong residual protection against recurrent infections by preventing new infection and reducing existing spore load
- Premium protection of your vines and fruit through translaminar, vapour and local systemic activity
- Proven, easy and flexible to use
- An excellent alternative mode of action to triazole (DMI) and strobilurin products

Premium protection from Powdery mildew

DuPont™ Talendo® fungicide – protection at **three key stages**



When Powdery mildew spores land on the plant surface, it produces an appressorium. Left unattended, it will penetrate the plant and start an infection.

When your crop is protected with DuPont™ Talendo® fungicide:

1. No spore germination occurs on protected fruit and leaves
2. It causes the appressorium to malform, so already present spores are unable to infect tissue
3. Treated spores which are released are no longer able to infect other tissue

Talendo® protects against Powdery mildew infection and re-infection

Talendo® will not eradicate existing disease but will impact the viability of spores and reduce the spread of the disease

Talendo® should be used as a preventative fungicide, before serious infection has occurred

Get growing with Talendo®

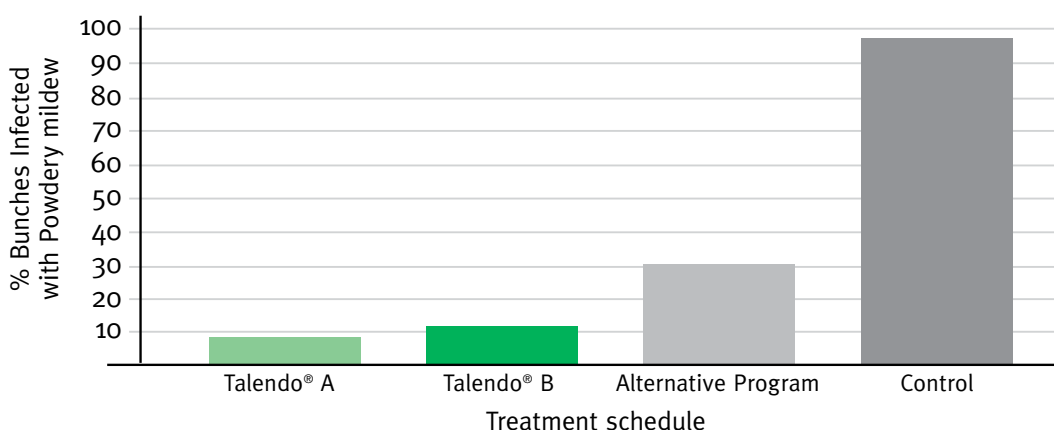
Mode of action and resistance management

DuPont™ Talendo® fungicide with the active ingredient – Proquinazid, is a member of a new class of chemistry, the Quinazolines, and is a FRAC Group 13 fungicide.

- Proquinazid appears to interfere with signal transduction between the pathogen (spore) and its host, which is necessary for successful infection
- Talendo® controls Powdery mildew strains resistant to other fungicide classes like triazoles (DMIs) and strobilurins
- Proquinazid (Talendo®) and quinoxifen (Legend*) both Group 13 fungicides, should be managed together
- Talendo® is an ideal component of a protectant fungicide program against Powdery mildew. It can be used in rotation with fungicides that have alternative modes of action
 - Talendo® can be applied up to three times in a season
 - A maximum of two applications sequentially, after which a fungicide with an alternative mode of action should be used

For optimum performance apply Talendo®

Talendo® application from pre-flowering provides premium protection against Powdery mildew, compared to alternative programs.



Treatment Application Schedule for Powdery mildew							
	Green Tip	12-25 cm shoots	Pre-flowering	Early flowering 10% capfall	80 – 100% capfall	Berry pea sized	Berry development
Talendo® A	Sulphur	Talendo®	Talendo®	Cabrio*	Cabrio*	Talendo®	Rubigan* SC
Talendo® B	Sulphur	Sulphur	Talendo®	Cabrio*	Cabrio*	Talendo®	Rubigan* SC
Alternative Program	Sulphur	Topas*	Prosper*	Cabrio*	Cabrio*	Legend*	Rubigan* SC
Control	Untreated	Untreated	Untreated	Untreated	Untreated	Untreated	Untreated

Source: Braybrook, R&D Solutions, Coldstream, Vic 2011–2012

*Non DuPont trademark

Easy and flexible to use

DuPont™ Talendo® fungicide is compatible and can be mixed with most agricultural chemicals.

- Fungicides e.g. DuPont™ Kocide® Opti™ fungicide, DuPont™ ManKocide® fungicide, mancozeb, strobilurins
- Insecticides e.g. DuPont™ Avatar® insecticide, pyrethroids
- Plant-growth regulators e.g. gibberellic acid
- Foliar fertilisers: please check with distributor representative before mixing

Talendo® passes the test

Talendo® has demonstrated excellent crop safety, in commercial applications in Europe and over 100 field trials in Europe, Australia and New Zealand.

- Talendo® can be used under a wide range of weather conditions
 - Tested in Europe at temperatures between 3 – 37°C
 - Relative humidities of 20% – 96%
- Talendo® has no impact on wine quality or production and has no detectable residues in wine when applied 28 days prior to harvest

Talendo® has limited global registrations. Growers of table grapes for export should confirm the latest information on MRL tolerances before use.



Low impact on key beneficial insects

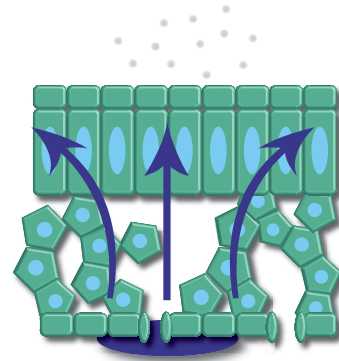
Talendo® is a valuable tool within an IPM program.

- Harmless to Predatory mites
- Harmless to Green lacewing larvae
- Low toxicity to Honey bees and Earthworms

Characteristics that help spread the protection

Rapid translaminar penetration

With excellent translaminar activity, DuPont™ Talendo® fungicide will rapidly move through the leaf after application.



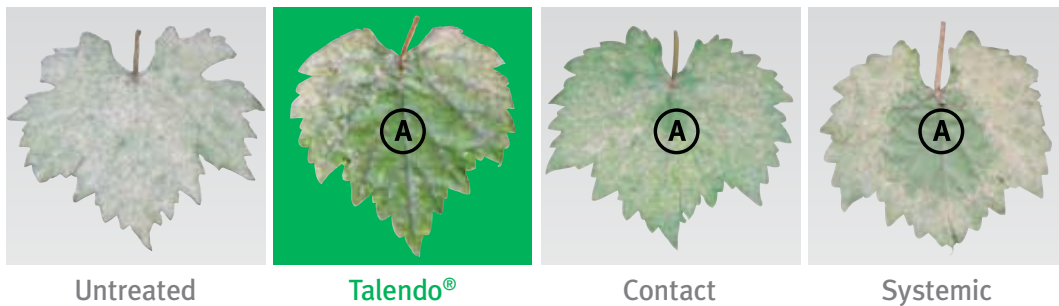
Local systemic movement

Demonstrating strong local systemic movement, Talendo® will rapidly redistribute along the surface tissue of the leaf. This movement is limited to treated leaf tissue and is not applicable to new growth.

Method

In an experiment to evaluate only local systemic movement inside the leaf, fungicide micro droplets were applied to Grape leaves at Zone A on the upper side of the leaf and covered with a cap to prevent vapour activity. After three days the leaves were inoculated with Powdery mildew.

Result

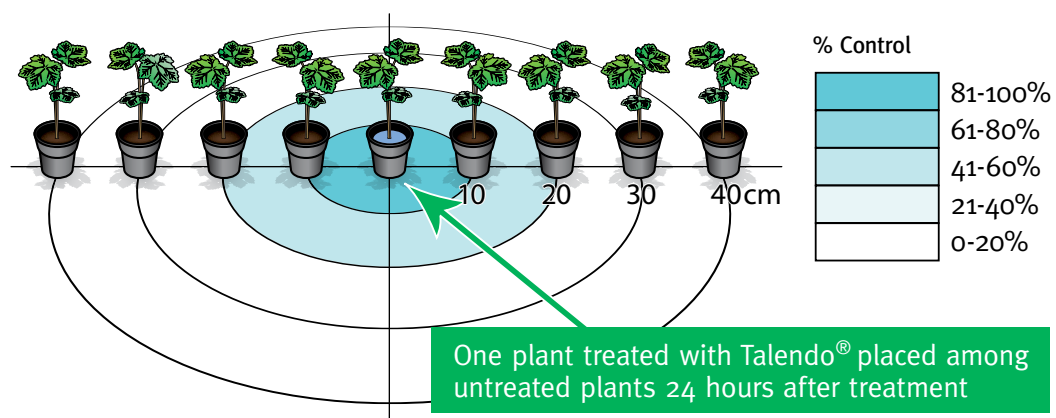


Source: ERDC DuPont de Nemours 2006

Talendo® reduced Powdery mildew on non-treated areas towards the base and the tip of the leaf.

Strong Vapour Activity

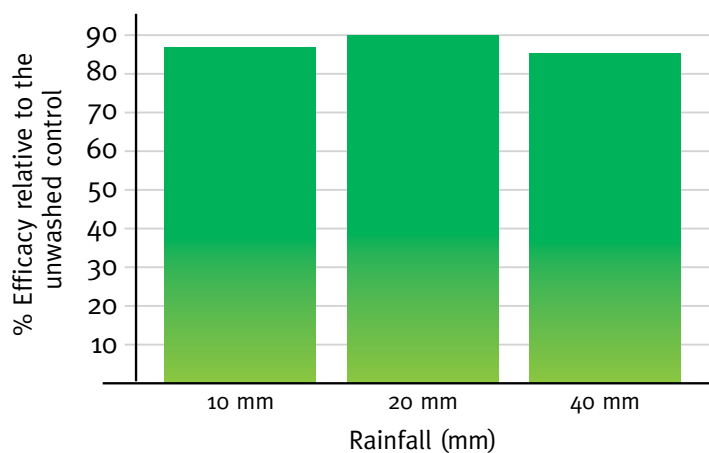
Through vapour activity, DuPont™ Talendo® fungicide provides protection of treated and untreated foliage (including new growth) and fruit, up to 20 cm from the point of application for 24 hours.



Source: ERDC DuPont de Nemours 2006

Resists wash-off from heavy dew or rain

In experiments conducted under controlled conditions with different rain regimes and intensities, it was demonstrated that Talendo® is rainfast within 2 hours of application.



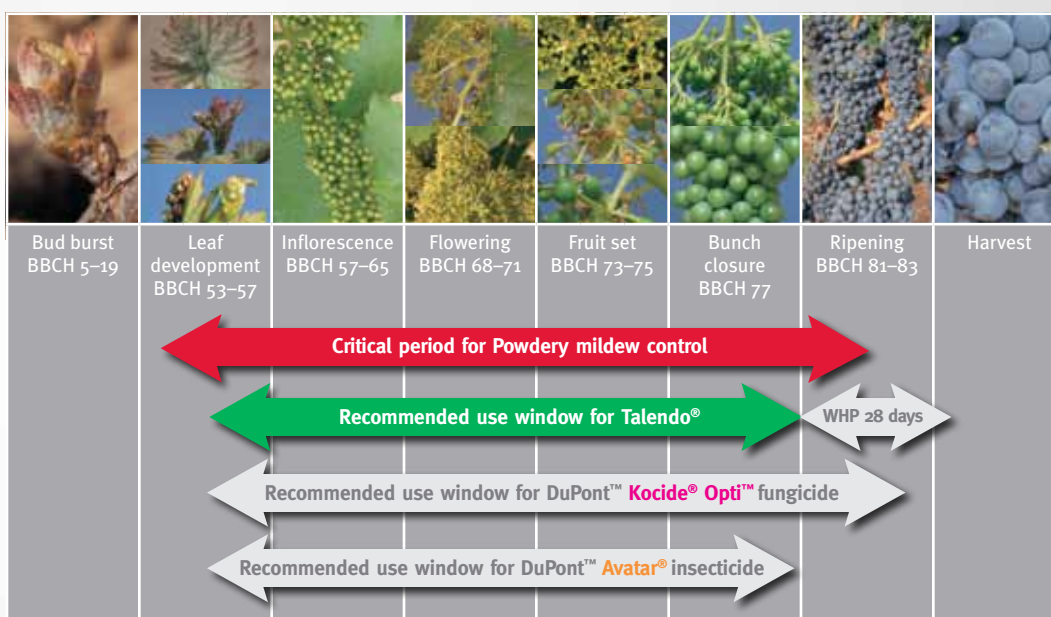
Talendo® can withstand 20 mm of rainfall occurring 2 hours after treatment without visible impact on Powdery mildew control.

Source: ERDC DuPont de Nemours 2006

The right time for Talendo®

Positioning in Grapes

DuPont™ Talendo® fungicide offers premium protection and can be used from pre-flowering through to 28 days before harvest.



Talendo® use pattern and withholding period

- Apply 25 mL/100 L of water (dilute spray)
- Apply no more than 2 consecutive applications with a maximum of 3 applications
- Do not apply less than 28 days prior to harvest (including AWRI for export wine grapes)
- 2 applications, a minimum of 14 days apart, with a 3rd application, if required, after using a different mode of action fungicide.



For more information on successful fungicide programs, visit www.talendo.com.au or talk to your DuPont representative.

DuPont™
Talendo®
fungicide

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