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
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
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 quinoxyfen (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.

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**

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

Source: ERDC DuPont de Nemours 2006
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.

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
Positioning in Grapes

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

The right time for Talendo®

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.