

# Luna<sup>®</sup> Experience in grapevines.

# **Luna** EXPERIENCE

Luna Experience offers exceptional in-field control of key fungal diseases of grapevines such as powdery mildew and botrytis bunch rot. Its unique chemistry is designed to deliver high quality fruit, providing an added level of security for both wine and table grape growers.

### How it works

Luna Experience is a unique combination of the active ingredient fluopyram, a novel fungicide within the 'SDHI' family (Group 7), and tebuconazole (Group 3). The formulation targets key diseases of grapevines, providing exceptional efficacy on powdery mildew and botrytis bunch rot. Fluopyram reduces a fungi's ability to germinate, colonise and sporulate on the plant's surface. Physically it protects the plant parts by adhering to the leaf surface and slowly penetrating into the leaf over time. As a systemic fungicide, both active ingredients are redistributed around the plant from the base of the stem to leaf tips. This results in uniform distribution throughout the leaf and a high level of disease control. Luna Experience also has a translaminar effect, which allows the movement of product from the top of leaves to the underside, thereby protecting the plant's untreated surfaces.

### Luna Experience at a glance

**Crop** Grapevines

**Target diseases** Powdery mildew, botrytis bunch rot

**Use rate** 37.5 mL/100 L

#### **Active ingredients**

Fluopyram (Group 7) and tebuconazole (Group 3)

#### **Application timing**

#### Powdery mildew:

As part of a preventative program, apply up to 2 applications from 4 leaves separated (E-L 11) using a 10 to 14 day spray interval. Ensure thorough coverage of all foliage. **Botrytis bunch rot:** 

# Apply as part of a preventative

program. Critical flowering application timing for botrytis includes, but is not limited to, 10% and 80% capfall. Ensure thorough coverage.

For export wine grapes – apply no later than E-L 17 (12 leaves

separated, pre-flowering). For domestic grapes and

**export table grapes** – apply no later than E-L 29 (4 mm berries, peppercorn size).

#### Maximum sprays

Apply a maximum of 2 applications per season.

DO NOT apply more than 0.5 L/ha of Luna Experience per application. DO NOT apply in a spray volume greater than 1,330 L/ha.

#### Withholding period

Not required when used as directed.

#### Rainfastness

Luna Experience should be applied at least 4 hours prior to rainfall or overhead irrigation.

Re-entry

After spray has dried.

#### Compatibility

Compatible with most commonly used insecticides and fungicides. For further details, please contact your reseller or local Bayer Crop Science representative.

#### Formulation

Suspension concentrate containing 200 g/L fluopyram and 200 g/L tebuconazole.

# Fluopyram systemic distribution in grapevine leaves:





Xylem systemic distribution on leaves and in stems.

# Fluopyram activity against powdery mildew.

After inoculation with Erisyphe necator (powdery mildew) in grapes.



• Fluopyram applied before leaf infection inhibits germination and germ tube elongation.

• After infection, fluopyram inhibits fungus growth stages on leaf surface.

# Fluopyram and tebuconazole complementary activity on fungal life-cycle\*



# Luna Experience powdery mildew control

In trial conditions conducive for high powdery mildew pressure as displayed in the untreated control, Luna Experience provided very high levels of control in both incidence and severity, when applied in 2 sprays prior to flowering.

Location: Bramley WA | Variety: Cabernet Sauvignon | App A - 12/11/20 - 8 leaves unfolded. | App B - 03/12/20 - Prior to flowering.



# Powdery mildew incidence control – bunches

# Powdery mildew severity control – bunches



# **Integrated Pest Management profile**

Luna Experience is considered not to impair the foraging activities of bees, harm adult bees or bee brood if used in grapes as per the directions for use. Best bee safety guidelines should be followed.

Luna Experience is considered compatible with integrated pest management progams (IPM) and may be used where IPM is practiced. Consult your local Bayer representative for more details.



Powdery mildew overwinters as fungal growth in diseased buds or as cleistothecia (spore bodies) on leaves, stems and bark. Diseased buds develop into stunted 'flag' shoots. Cleistothecia release spores after 2.5 mm of rain or irrigation. Spores spread to developing leaves and bunches. During early summer a new generation of spores is formed every 5-10 days and spread by wind throughout the vineyard in mild cloudy weather conditions, ideally around 22-28°C.

Spreads through the vineyard

Cleistothecia remain on cordons, canes and decaying leaves. Fungal strands remain inside the dormant bud.

# Botrytis disease cycle



Botrytis overwinters as black resting bodies (sclerotia) on canes, old berries and in plant material in the canopy and on the vineyard floor. During flowering and fruit set spores are spread to flower parts and berries by the wind in mild, moist conditions (15-20°C). From spring into summer spread continues from airborne spores and through contact between infected berries. Berries become more susceptible as they mature. Late in the season, sclerotia are formed on canes, mummified berries and vine debris, and overwinter as a major inoculum source for the next season.

# **Getting the best from Luna Experience**

- Apply preventatively, prior to the onset of disease as part of an integrated disease control program
- For export wine grapes apply no later than E-L 17 (12 leaves separated, pre-flowering)
- For domestic grapes and export table grapes apply no later than E-L 29 (4 mm berries, peppercorn size)
- Apply a maximum of 2 applications of Luna Experience per season
- DO NOT apply more than 0.5 L/ha of Luna Experience per application
- DO NOT apply in a spray volume greater than 1,330 L/ha

# **Resistance Management**

This use is subject to a CropLife Australia fungicide resistance management strategy which limits the total number and consecutive number of applications of Luna Experience and other Group 7 and 3 fungicides.

Always consult the product label for detailed information. The information and recommendations set out in this brochure are based on tests and data believed to be reliable at the time of publication. Results may vary, as the use and application of the products is beyond our control and may be subject to climatic, geographical or biological variables, and/ or developed resistance. Any product referred to in this brochure must be used strictly as directed, and in accordance with all instructions appearing on the label for that product and in other applicable reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions. Bayer CropScience Pty Ltd ABN 87 000 226 022 Level 1, 8 Redfern Road, Hawthorn East, Victoria 3123.

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