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# Zampro®

## Fungicide

### Chemistry for downy mildew spray programs

Zampro contains 300 g/L ametoctradin and 225 g/L dimethomorph (MOA Group 45/40)



### The Product

Zampro® is a unique fungicide for the control of downy mildew in grapes, and contains the active ingredients dimethomorph and ametoctradin.

Dimethomorph is a systemic morpholine fungicide, with the mode of action being inhibition of sterol synthesis which is vital for cell membrane structure and function (Group 40).

Ametoctradin is a non-systemic fungicide that inhibits respiration in the cell mitochondria (Group 45).

### Application Rate

Zampro is registered at 80 mL/100 L for dilute use in grapevines.

### Directions for Use Table

The following is an extract of the product label and does not constitute the complete directions for use. The product label should be read thoroughly before opening the packaging.

CROP	DISEASE	RATE	CRITICAL COMMENTS
Grapevines	Downy mildew ( <i>Plasmopara viticola</i> )	<b>Dilute spraying</b> 80 mL/100 L	<p>DO NOT use in crops intended for drying.</p> <p>Also see CAUTION section re export commodities.</p> <p>Apply at 7 to 14 day intervals when humid or wet conditions favour infection but before disease is evident. Use the shorter interval when conditions favouring infection are creating a high risk. Apply a maximum of 2 consecutive sprays before changing to an alternative mode of action for at least one application.</p> <p>Products containing metalaxyl or metalaxyl-M are recommended if downy mildew infection may have already occurred.</p> <p>Apply using dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.</p> <p>DO NOT use in equipment that requires greater than 400 mL/100 L (5X). DO NOT apply more than 2 sprays of ZAMPRO per season, as a precaution against the development of disease resistance.</p>

#### WITHHOLDING PERIOD (WHP)

**Grapes grown for domestic wine:** Do not harvest for 4 weeks after the last application.

**Grapes grown for export wine:** One application per season: refer to point 6 below.

Multiple applications: Do not apply after E-L 25 (80% capfall).

### Summary

- 1. Zampro** is manufactured by BASF and distributed by AgNova Technologies.
- Zampro has systemic and non-systemic properties, and should be applied as a protectant fungicide.
- 3. Rainfast:** 1 hour.
- 4. Compatibility:** Zampro has been tested in tank mixture with either Flute or Kusabi fungicides. Zampro is widely compatible with other crop protection compounds but local testing is always recommended before large scale use.
- 5. Crop Safety:** Excellent crop safety when used as directed.

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### 6. WHP: Dimethomorph application to grapes grown for export wine production in Australia

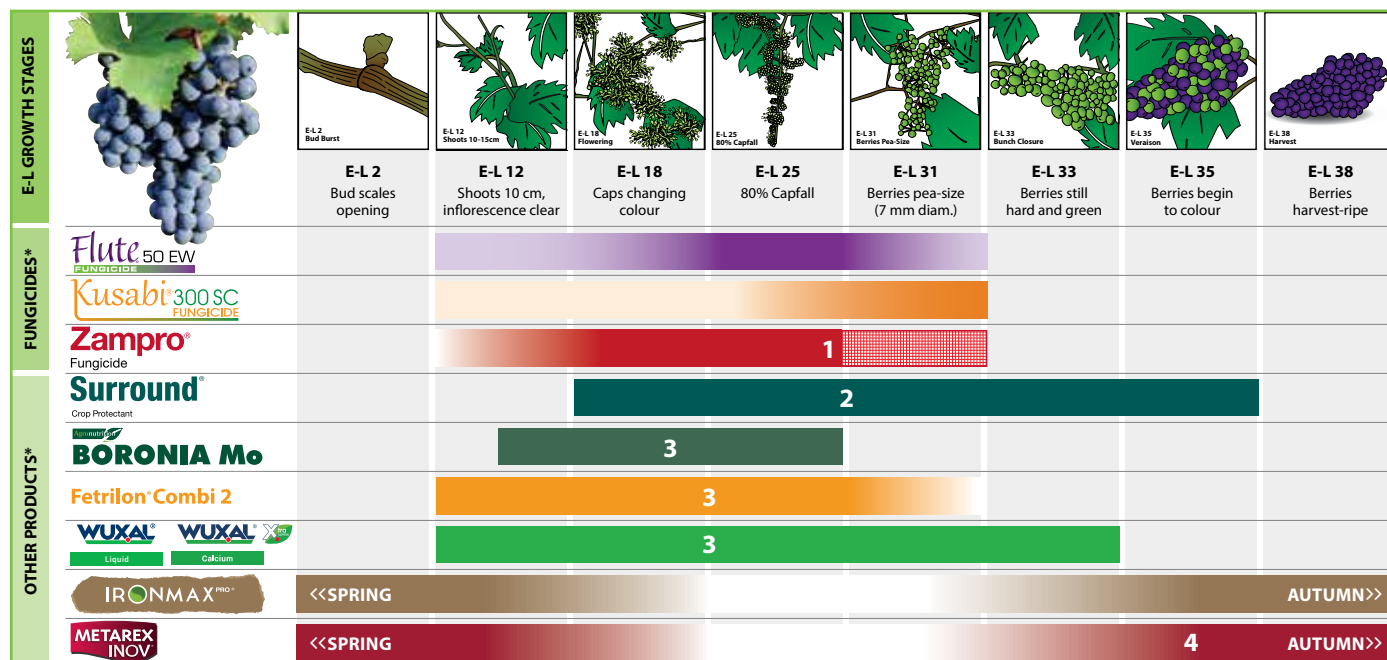
Zampro or other products containing dimethomorph (e.g. Acrobat\*, Downright\* or Sphinx\*) can be applied up to growth stage E-L 31 (berries pea-size 7 mm in diameter)

provided that only ONE application is made per crop with ANY of these products. If more than one application of products containing dimethomorph is applied to the crop the current E-L 25 (80% capfall) restriction must be observed in order to avoid a detectable residue in wine. Always check with the AWRI for current WHPs for export wine.

**7. Safety:** Zampro shows an excellent ecotoxicological profile. It is practically non-toxic to birds, mammals, honeybees, earthworms and other soil macro-organisms, or to non-target soil micro-organisms and their ecosystem function when used as directed.

FEATURE	ADVANTAGE	BENEFIT
New mode of action (Group 45)	Qxl site of action = no cross-resistance	Disease resistance management
Locally systemic activity (Group 40)	Translaminar movement	Protects upper and lower leaf surfaces
Active on downy mildew (Groups 40+45)	Reduces pressure on following products	Excellent for fungicide rotation
Quick adsorption/absorption onto plants	Excellent rainfastness	Spray is not washed off if rain occurs
Widely compatible	Mix with powdery mildew sprays	Increased application efficiency.

## Vineyard Products Timeline



**1. WHP: Dimethomorph application to grapes grown for export wine production in Australia.** Zampro or other products containing dimethomorph can be applied up to growth stage E-L 31 (berries pea-size 7 mm in diameter) provided that only ONE application is made per crop of ANY of these products. If more than one application is to be made, the current E-L 25 (80% capfall) restriction applies in order to avoid a detectable residue in wine. Always check with the AWRI for current WHPs for export wine.

**2. Do NOT apply Surround to table grapes after E-L 26 (capfall complete).**

**3. Do NOT apply Wuxal, Fetrilon Combi 2 or Boronia Mo to table grapes after E-L 20 (10% capfall).**

**4. If applying Metarex Inov in the month before harvest, consult your winery or fruit agent.**

The information provided herein may include extracts from the product label and does not constitute the complete directions for use.

**READ THE PRODUCT LABEL THOROUGHLY BEFORE OPENING OR USING ZAMPRO**

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