



# Nimrod®

## Product Overview

- NIMROD® contains 250 g/L bupirimate and is registered for the control of Powdery Mildew in melons (*Sphaerotheca fuliginea*), apples (*Podosphaera leucotricha*) and ornamentals
- NIMROD® is formulated as a convenient, easy to handle liquid and is highly compatible with other commonly used fungicides and insecticides
- NIMROD® acts via contact, translaminar, systemic and vapour activity and offers a unique mode of action for effective and proven control of Oidium diseases
- NIMROD® has negligible effects on beneficial arthropods including bees, lady beetles, predatory mites and predatory bugs and is an ideal choice for use in IPM Strategies.

## Mode of Action

GROUP **8** FUNGICIDE

The bupirimate in NIMROD® is a member of the pyrimidine group of fungicides and is the only member of Group 8 registered for use in Australia.

NIMROD® acts by inhibiting sporulation and Powdery Mildew control is achieved by the interaction of direct protection and eradication through systemic and translaminar action. Bupirimate is translocated in the plant xylem, upwards in the stem and towards the margins of leaves. After application NIMROD® rapidly spreads through the leaf to give rainfast protection, moving freely within sprayed leaves and from sprayed green stems to leaves. NIMROD® moves through the leaf to control mildew on the unsprayed surface of leaves. NIMROD®'s vapour action assists even further to give control when foliage is dense and full spray penetration is difficult.

## When to Use NIMROD®

NIMROD® controls Powdery Mildew (*Sphaerotheca fuliginea*) in melons including rockmelons, honeydew melons and may be used under permit<sup>1</sup> in bitter melon, cucumber, gherkin, pumpkin, squash, watermelon and zucchini crops.

**Use rate:** 60 mL per 100 L of water or 600 mL/Ha<sup>1 2</sup> ensuring thorough coverage

- Apply after fruit set after using protectant fungicides prior to this growth stage
- Alternate or tank mix with protectant or systemic fungicides from different mode of action groups e.g. Citadel® (Group 3), Talendo\* (Group 13), Colliss\* (Group 7+11)
- Do not use more than 3 applications per crop
- Do not apply within 1 day of harvest.

NIMROD® may be used under permit to control Powdery Mildew (*Levillula taurica*) in Eggplant<sup>2</sup> and Capsicum<sup>1</sup>, Chillies<sup>1</sup> and Paprika<sup>1</sup>

<sup>1</sup> Minor Use Permit PER14840 which is valid from 1 October 2014 until 30 September 2019

<sup>2</sup> Minor Use Permit PER14036 which is valid from 1 April 2013 until 31 March 2018



## Resistance Management

Resistance to bupirimate develops relatively slowly if selection pressure is excessive but can be reversed if selection pressure is reduced - unlike other fungicides such as the strobilurins where resistance development can be rapid and permanent. No cross resistance to other fungicide groups has been observed. Plant pathogens including *Sphaerotheca fuliginea* are accepted as having a high risk to development of resistance to fungicides and some populations of *Podosphaera xanthii* already been confirmed as resistant to bupirimate, strobilurins (Group 11) and triadimenol (Group 3).

NIMROD® should be used in accordance with the CropLife Resistance Management Strategy for Powdery Mildew in Cucurbits.

1. Start disease control early – Do not wait for powdery mildew to appear before spraying
2. Use protectant sprays in early crop growth. Apply protectant spray up to the fruit set stage of the crop if the disease normally occurs during this period. If this schedule is interrupted (e.g. by rain) use a tank mix of protectant plus systemic before recommencing the protectant program
3. After fruit set use systemic fungicides in one of the following ways:
  - a. Tank mix systemic fungicides with a protectant fungicide AND use fungicides from at least two different activity groups per crop
  - b. Alternate systemic fungicides with a protectant fungicide AND use fungicides from at least two different activity groups per crop
  - c. Alternate systemic fungicides from at least three different activity groups per crop
  - d. Apply Group 11 fungicides e.g. Mirador® or Amistar® preventatively
4. Use a maximum of one Group 11 fungicide (e.g. Mirador) out of every three fungicide applications
5. Do not use consecutive applications of Group 11 or Group U6 (e.g. Flute\*) fungicides
6. Do not apply more than two Group 11 or Group U6 fungicides per crop
7. Do not apply more than three Group 7 (Fontelis\*) or Group 13 (e.g. Talendo\*) fungicides per crop and no more than two consecutive applications per year



## Compatibility

NIMROD® is compatible with many fungicides, insecticides and adjuvants with very limited exceptions enabling it to prove a very flexible fungicide in conjunction with or as an alternative to other chemistry.

## Features and Benefits

Features	Benefits
Unique mode of action	Important Fungicide Resistance Management tool
Convenient, easy to measure and handle liquid that quickly penetrates plant tissue and protects	Fast acting and highly effective formulation that provides potent and prolonged disease control
Is compatible with many commonly used fungicides and insecticides	Can be tank mixed with other chemistry to achieve several jobs in the one pass
Little to no effect on beneficial arthropods	Compatible with IPM programs.

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