



INSECTICIDE



ADAMA

**NIMITZ®**

Revolutionary nematode control



### Product overview

- Nimitz is a novel nematicide developed by ADAMA containing a unique new active ingredient, setting a breakthrough in true nematicidal control
- Nimitz provides an unmatched combination of safety and efficacy, thereby simplifying several aspects of nematode management
- Nimitz is an important new management option for the control of root-knot nematode, root lesion and potato cyst nematodes.

### Mode of action

Nimitz contains 480 g/L fluensulfone in a emulsified concentrate (EC) formulation.

Fluensulfone belongs to a unique new chemical class with a new mode of action. Studies have shown that fluensulfone is a true nematicide that kills the target by contact, rather than temporary nematostatic (paralysis) activity as seen with current organophosphate and carbamate chemistry.

Nimitz has rapid activity on nematodes. Within 1 hour of contact nematodes cease feeding and become paralysed within 24 - 72 hours. Any eggs laid after exposure to Nimitz are likely to be unviable, or if juveniles do hatch, they do not survive. Fluensulfone requires 1 - 3 days to achieve complete mortality.



Root-knot nematode larvae penetrating a tomato root. Once inside, the larva establishes a feeding site, which causes a nutrient-robbing gall. Photo by William Wergl

### Active Ingredient

480 g/L fluensulfone in a emulsified concentrate (EC) formulation

### Crop supported

Potatoes, kūmara, sweet potato, parsnips and carrots

### Withholding Period

Potatoes, kumara/sweet potato, parsnips and carrots - 80 days

For export crops consult your exporter.



# Nimitz®

## Plant Back Restrictions

Nimitz has the following plant back restrictions. Do not plant crops into areas treated with Nimitz until the following plant-back interval has elapsed since application.

Days	Crops
Nil	Potatoes, kumara / sweet potato, parsnips and carrots
120 Days	Cereals for animal forage (greenfeed)
180 Days	Cereals for grain; pasture
180 Days	Lettuce
270 Days	All other crops

## Features and benefits

- Excellent control of key nematode pests in different crops
- Truly nematicidal action not merely nematostatic
- Improved toxicity and ecotoxicity profile versus traditional organophosphate chemistry including NemaCur (fenamiphos).
- Applied using existing nematicide application methods
- Not subject to enhanced degradation like OP and carbamate nematicides
- Targeted activity spectrum and IPM compatible
- Maximised crop potential and greater grower returns
- Season long treatment can be achieved even after heavy rainfall after planting
- No additional application equipment investment
- Confidence that effective nematode control will be achieved now and into the future when used in an effective management strategy
- Highly effective against susceptible nematodes, but with minimal impact on beneficial and non-target species

## Application recommendation

Nimitz may be applied by broadcast or banded boomspray application. These application methods do not require new machinery or application equipment for applying Nimitz.

Nimitz must be applied 7 days prior to planting at a rate of 4-8 L/ha and incorporated mechanically to a depth of 15-20cm for broadcast applications.

DO NOT apply more than one application per crop, and no more than 8 L/ha per year.

## Efficacy

Nimitz has been extensively tested around the world since 2007 and in in New Zealand registration trials since 2013.

In field trials, Nimitz consistently demonstrated equal or better nematode control when compared with industry standards including fenamiphos.



Nimitz is truly nematicidal in action, not merely nematostatic like older chemistry that 'freezes' the nematodes when in contact with the treatment, and then allows them to recover when the active ingredient has dissipated. This is particularly important in environments where heavy rainfall wash some products through the soil profile.

Long term use of existing nematicide options has allowed some organisms in the soil biomass to adapt to breakdown OP's and Carbamates. Nimitz is not effected by this.

Nimitz is registered for the control of root-knot nematode, root lesion and potato cyst nematodes.

## Resistance Management

Nimitz has a unique mode of action differing for all existing nematicide products on the market thereby reducing the risk of resistance development.

To further reduce the risk of resistance development avoid repeated applications and rotate Nimitz with other modes of action where possible.

Additionally it is recommended to use healthy propagation material (insect, pathogen and nematode-free), the use of nematode resistant / tolerant varieties, crop rotation and avoid sowing crops into paddocks with a known high presence of nematodes.

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