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, as well as Root lesion nematodes in Sugarcane, prior to planting.

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.

Features and benefits

- Excellent control of key nematode pests in different crops
- Truly nematicidal action not merely nematostatic
- 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.

Crops supported

Capsicum, Chilli, Carrot, Cucumber, Eggplant, Honeydew Melon, Okra, Potato, Pumpkin, Rockmelon, Squash, Sugarcane, Tomato, Sweet Potato, Watermelon and Zucchini.

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Application recommendations

Nimitz may be applied by broadcast or banded boomspray application or via drop irrigation (in fruiting vegetables only). These application methods do not require new machinery or application equipment for applying Nimitz.

Nimitz is applied at a rate of 4 - 8 L/ha and must be incorporated either mechanically to a depth of 15 - 20 cm for broadcast/boomspray applications, or with sufficient irrigation to deliver the product to the root-zone.

When applying to Cucurbit, Tomato, Capsicum, Chilli, Eggplant, Okra and Sweet Potato use only prior to planting transplanted crops and not in conjunction with direct seeded crops. After application, sufficient irrigation must be applied to further assist with incorporation and activation of Nimitz.

In fruiting vegetables, root and tuber vegetables, application must be made 7 days prior to the sowing/planting/transplanting of seeds/seedlings/vine cutting in treated areas.

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 have been commercially available in Queensland Australia since 2015. Thousands of trials have been conducted around the world, ranging from petri dish tests in the lab, greenhouse pot trials, small plot replicated field trials and full scale field trials.

In field trials, Nimitz consistently demonstrated equal or better nematode control when compared with the registered standard nematicide or fumigant and in many trials, the greater nematode control achieved by Nimitz resulted in a significant increase in yield.

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 Tropical and Sub-Tropical environments where heavy rainfall can occur and wash through the soil.

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 nematodes and also Root lesion nematodes in sugarcane.

Resistance management

Nimitz use is governed by a Stewardship Program via accredited Adama Innovation Centres to encourage the use of Nimitz as part of a management strategy that includes the use of other nematode control measures and avoidance of repeated nematicide applications. These measures will include the use of healthy propagation material (insect, pathogen and nematode-free), the use of nematode resistant/tolerant varieties, crop rotation, rotation with other registered nematicides, avoiding carryover of nematode contaminated soil to other sites, the promotion of optimal growing conditions for the crop to increase tolerance of nematode infections and regular testing for nematode presence.