

# MAINMAN®

For the control of aphids and tomato/potato psyllids (TPP) in potatoes



Pack Sizes Available

1KG

## Active ingredient

500g/kg flonicamid

## Formulation

Water dispersible granule

## The problem

Tomato potato psyllid *Bactericera cockerelli* lives on solanaceous weeds and crops including potatoes, tomatoes, capsicums and egg plants. It causes stunting and yellowing (psyllid yellows) of potato foliage. TPP transmits a bacterium, *Candidatus Liberibacter solanacearum*, which causes a tuber disease known as Zebra chip. Infected plants produce small tubers and are unsuitable for processing as they exhibit dark stripes when fried.

Several species of aphids occur on NZ potato crops, including green peach aphid *Myzus persicae*, foxglove aphid *Aulacorthum solani* and potato aphid *Macrosiphum euphorbiae*. These aphids are vectors of potato leaf roll virus (PLRV) and other viruses. PLRV-infected plants are stunted and have upward rolling of the leaves. Diseased plants produce fewer and smaller tubers.



Tomato potato psyllid adult



Tomato potato psyllid nymph

Images: Plant and Food Research (Robert Lamberts)



Zebra chip – sliced potato tuber fried



Psyllid yellows – potato

Images: Plant and Food Research (Jessica Dohmen-Vereijssen)

## Features and benefits of Mainman

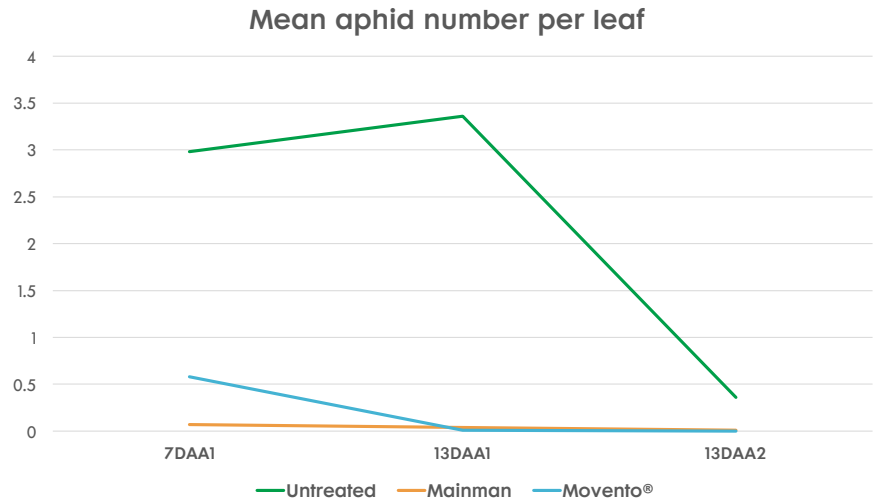
- Belongs to a unique chemical class (Group 29) with a novel mode of action.
- No reported cross-resistance with other insecticides
- Controls aphids and psyllids through contact and ingestion.
- Feeding ceases within an hour – mortality occurs within 2-5 days
- Has translaminar and systemic movement within the plant to reach new growth and the underside of leaves
- Low mammalian toxicity
- Low hazard to beneficial insects – ideal for integrated pest management (IPM)
- Residual activity for 2-3 weeks
- Rainfast within 3-4 hours
- Approved for both ground and aerial application

## Other controls

- The maximum application rate is 160g/ha
- Apply no more than two applications per crop
- Withholding period: Potatoes - 7 days
- Do not feed treated crops to animals
- Do not apply to any plant likely to be visited by bees at the time of application, or immediately after application until the spray has dried, or in areas where bees are foraging
- Do not apply onto or into water
- Re-entry – After the spray has dried unless wearing personal protective equipment (PPE)

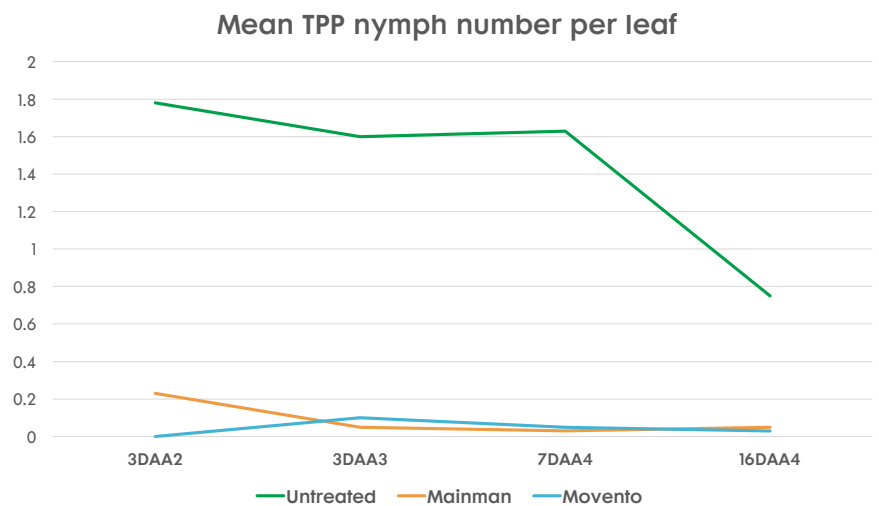
## Control of aphids in potatoes

cv Moonlight planted  
20 December 2012, Hawkes Bay  
2 applications at end of flowering and  
+15 days  
Water rate 500L/ha



## Control of TPP in potatoes

cv Moonlight planted  
1 January 2013, Pukekohe  
4 applications from end of flowering  
until 15% senescence  
Water rate 500L/ha



## Use Directions

Crop	Pest	Rate / Ha	Critical Comments	General Notes
Potatoes	Aphids	160g/ha	At the first sign of infestation, apply a single spray or two sprays at 7-14 days interval. Use the closer interval under high pest pressure.	Apply no more than 2 applications per crop.  Apply as a broadcast spray in sufficient water to give thorough coverage without excessive runoff
	Tomato/Potato Psyllids		Apply two sprays, 7 days apart, at the first sign of infestation.	

The information contained is a quick reference only.  
Always consult the product label before use.

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