

## Early Blight Resistance Management Guidelines in Potatoes

Syngenta brought MIRAVIS® fungicide (200 SC) to the New Zealand potato market in 2018 and it was the first and only Group 7 (SDHI) fungicide to be registered in potatoes for Early blight (*Alternaria solani*) control.

Recently, this changed with the registration for Emesto® Prime from Bayer, for use as an In-Furrow (IF) treatment at planting to control *Rhizoctonia solani*. Other SDHI-based fungicide registrations for use as seed, IF or foliar treatment may well follow in time.

To comply with the MIRAVIS® label a maximum of 3 SDHI's per crop, per season are permitted, including IF applications or seed treatments. To help prevent the onset of Early blight resistance to SDHI fungicides in growing areas where *Alternaria solani* populations are still sensitive to this chemistry, Syngenta NZ and Potatoes NZ recommend the following:

**When managing SDHI fungicide applications, it is important to account for all uses of SDHI's, including seed treatments, IF and foliar applications.**

**If a SDHI fungicide has been applied as an IF and/or seed treatment, the following should apply.**

- 1. The first foliar fungicide application should NOT be an SDHI active ingredient**
- 2. A maximum of 2 MIRAVIS® foliar applications can be made during the season.**

Point 1 aligns to the current strategy recommended by CropLife Australia for managing Early blight resistance in potatoes. This was in response to FRAC recently moving SDHI fungicides from medium to high resistance risk. Some of the pathogens in potatoes, including *Alternaria spp.*, are also considered medium risk of resistance development.

When applying MIRAVIS® as a foliar spray in growing areas where *Alternaria solani* populations are still sensitive to SDHI fungicides, please follow the recommendations outlined in the Resistance Management section of our latest MIRAVIS® potato technote.

The technote can be found here on the Syngenta New Zealand website  
<https://www.syngenta.co.nz/product/crop-protection/fungicide/miravis>

### Registered SDHI (Group 7) fungicides in NZ registered for use on potatoes

Trade Name	Active ingredient	Application method	Max # applications
MIRAVIS®	200 g/ L Pydiflumetofen	Foliar	3*
EMESTO® Prime	240 g/L Penflufen	In-furrow	1

\* Unless a Group 7 fungicide is used as a seed treatment or IF, then the maximum is 2

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