

# Suggested Psa Management Programme for the Dormant Season in Kiwifruit: Post Harvest to Flowering

## Background

Bacterial infections and symptom expression on a susceptible host are driven principally by rainfall and to a lesser extent temperature. Any treatment regime needs to closely monitor rainfall and factor in the likelihood of an outbreak occurring. This treatment programme does not seek to claim control of *Pseudomonas syringae* pv. *actinidiae* (Psa) but to reduce bacterial populations to a level where they don't incite disease symptoms. A bacterium like Psa can exist happily as a member of the foliar bacterial micro flora without causing any disease symptoms.

## Current Guidelines

Current recommendations for the control of Psa centre on the use of Copper based fungicides and biological control agents. It is important however to also consider other materials that can enhance the activity of the above products as part of any effective disease management strategy.



Spotless has recently been approved for control of the bacterial canker Psa (limited claim)\* and is ideal for managing bacterial infection from green tip to the end of flowering (August to November).

This is the time of high bacterial inoculum build up and requires sequential sprays to reduce bacterial populations.

Growers in highly infected areas should apply Spotless every 10 days, with lesser infected areas every 14 days. Growers should consider their location and weather patterns when deciding on application intervals.

\*The efficacy of this product for control of Psa is currently supported by limited laboratory and greenhouse data and is therefore not fully proven at this stage.



Greenseal Ultra™ is ideal for use as part of a hygiene programme in kiwifruit.

Greenseal Ultra is the most complete pruning wound dressing; which contains a bactericide that will provide additional protection for pruning wounds from bacterial infection. Greenseal Ultra will promote strong callus formation and will also protect wounds from infection by the white rot basidiomycetes, which are common invaders of pruning wounds.



Omniwett, a proprietary adjuvant formulation, contains surfactants and plant elicitors (plant health activating compounds designed to switch on plant defences) as key active ingredients.

Omniwett should be used as an adjuvant to be added to Copper. At leaf fall Omniwett is co-applied with Copper as a clean up spray. Omniwett can also be applied with a post picking spray of Urea.

# Suggested Programme for Kiwifruit

Timing	Product	Rate/ha	Comments
Green tip to the end of flowering	Spotless	4 L/ha	For control of the bacterial canker Psa (limited claim)*. Spray every 10 – 14 days. (See Spotless label for directions.)
Flowering	Spotless	3.5 L/ha	For control of <i>Sclerotinia</i> . (See Spotless label for directions.)
Post harvest	Omniwett	1 – 2 L/ha	Use Omniwett as an adjuvant to be added with Copper. Do not use Omniwett 28 days before Hi-Cane® application.
	Greenseal Ultra	Approx. 4 – 8 L/ha dependent on pruning wound size.	Protect all pruning wounds with a generous coating, paying particular attention to cuts made to vine leaders.
Pruning	Omniwett	1 – 2 L/ha	Use Omniwett as an adjuvant to be added with Copper. Do not use Omniwett 28 days before Hi-Cane® application.
Before bud burst	Omniwett	1 – 2 L/ha	Use Omniwett as an adjuvant to be added with Copper. Do not use Omniwett 28 days before Hi-Cane® application.

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**For any additional information see your Zespri Crop Protection Programme or contact Omnia:**

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Spotless is registered pursuant to the ACVM Act 1997, No P7937  
Hi-Cane is a ® Registered trademark of AlzChem Trostberg GmbH

Greenseal Ultra™ is registered pursuant to the ACVM Act 1997, No. P8180



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