

BIOPEST IN ROW CROP

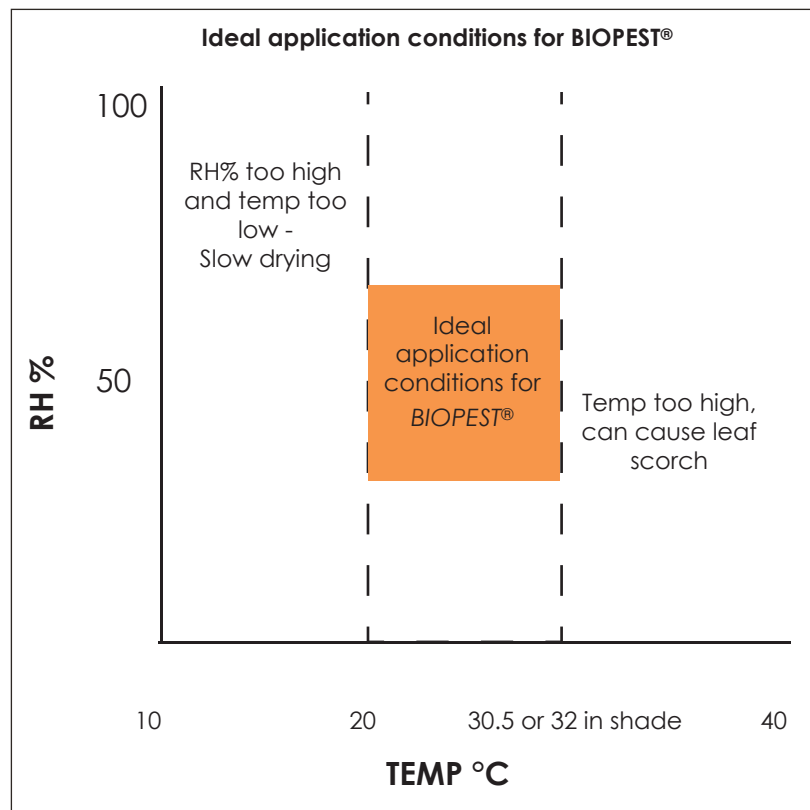
TECH NOTE SERIES



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KEY POINTS

- Apply in quick drying conditions where RH% is <60% and the temperature is between 20-32°C.
- Use coarser droplets to target crops with disease lower in the canopy – *BIOPEST*® will increase droplet size
- Do not apply to plants suffering moisture or other stress.
- Mixing order – please see the Tech Note entitled '*BIOPEST*® Compatibility'



- *BIOPEST*® has a formulation developed specifically to deliver high levels of crop safety without compromising efficacy on pests or disease
- *BIOPEST*® has a physical mode of action with no recorded instances of resistance development in key horticultural pests
- *BIOPEST*® has an IPM fit with little to no effect on pollinators and predatory insects
- *BIOPEST*® is organically certified with nil residues & excellent user safety
- *BIOPEST*® has one of the broadest labels for use in horticultural crops – including compatibility with a huge range of mix partners
- *BIOPEST*® has been widely used in a range of Australian horticultural crops for over fifteen years
- Refer to label for more details on rates and mixing partners





PRODUCT OVERVIEW

BIOPEST® is a highly refined biorational pesticide and pesticidal adjuvant that acts as:

A Fungicide

Effective stand-alone fungicide across a range of crops (i.e. Melons & Cucurbits)

An Insecticide

Effective across a range horticultural pests.

A Carrier

A biological and chemical insecticidal carrier with unique sticking and spreading features.

Behaviour Modifier

Deters feeding and/or oviposition (egg laying) behaviour of a range of key horticultural pests. Suitable across a range of crops, pests and diseases, and spraying conditions.

With an unmatched level of purity *BIOPEST*® represents the most advanced horticultural spray oil to growers capability of managing multiple, unrelated pests or diseases simultaneously.

THE ISSUE

Lesser quality petroleum oils and vegetable oils have been shown to damage plants, affect growth and reduce yields in other crops. It is thought this is primarily caused by the lower quality of the oils as well as their different chemical make-up.

These oil types are also less likely to provide insecticidal qualities, particularly in terms of behaviour modification.

THE SOLUTION

PRODUCT PURITY

BIOPEST® has less than 0.02% impurities – the highest level practically achievable with current refining technology. Impurities cause damage and restrict growth the longer they stay on the plant surface. *BIOPEST*®'s purity means it can stay on the plant surface and keep working without damaging the plant or restricting growth.

OPTIMAL WEIGHT OIL

An oil's weight, or carbon number, influences its ability to stay on the plant surface. *BIOPEST*®'s weight is nC24, which is regarded as the optimal weight for an oil when used in pest management. Because *BIOPEST*® persists on the leaf surface longer it means:

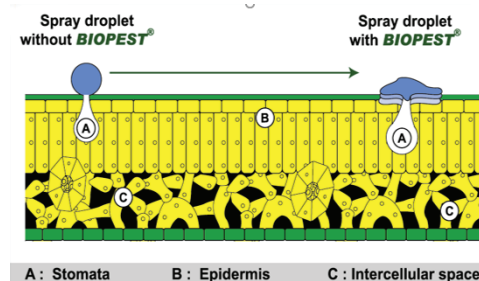
- More pests killed.
- Significantly greater effectiveness in modifying the behaviour of pests.

SUPER STICKING

BIOPEST®'s superior rainfastness means it will keep the insecticide on the plant longer - allowing more time for pest control for both the insecticide and *BIOPEST*®.

SUPER SPREADER

BIOPEST® contains a unique surfactant formulation that provides for superior spreading of spray droplets. This means more pests come in contact with the spray.



BIORATIONAL PESTICIDE

BIOPEST® provides a number of unique features that make it an important tool for IPM (Integrated Pest Management) and sustainable farming. These features are outlined below.

NO PEST RESISTANCE:

Pests will not develop resistance to *BIOPEST*®

SAFE TO BENEFICIALS:

BIOPEST® causes minimal harm or disruption to beneficials, Pollinators and predatory insects. This is due to the way *BIOPEST*® acts on pests.

PEST/DISEASES MANAGEMENT:

BIOPEST® will act as a stand-alone manager of a wide range of horticultural pests and diseases.

INSECTICIDE CARRIER:

BIOPEST® will act as uniquely effective carrier with most chemical insecticides as well as BT/ NPVs.

REDUCED COSTS:

Independent research shows that *BIOPEST*® can significantly reduce insecticide and pest management costs.

PROTECT YIELD:

Independent research has shown that *BIOPEST*®'s 'soft' approach to insect management won't sacrifice crop yields.

ENVIRONMENTAL IMPACT:

BIOPEST® is broken down within weeks to form simple molecules that do not pose a threat to the environment.

CERTIFIED ORGANIC

BIOPEST® is certified organic with excellent user safety.



USER GUIDE

The regular presence of *BIOPEST*® in the crop provides a two-pronged pest management approach:

1. **PEST KILL:** Each spray will kill pests rapidly without disrupting the beneficial insects.
2. **PEST MANAGEMENT:** The presence of *BIOPEST*® will additionally deter egg laying and feeding in the crop by many key pests for up to 10 days.

Some important principles apply when using *BIOPEST*®.

A PROACTIVE APPROACH

Proactive spraying is essential to IPM programs and when using *BIOPEST*®. Set pest thresholds, monitor and spray when necessary. This will avoid the expense of having to manage high or extreme pest levels.

REGISTERED APPLICATIONS

Potential applications for *BIOPEST*® are extensive. Please refer to *BIOPEST*®'s product label for complete listing of registered applications. A copy is available at www.sacoa.com.au or by contacting SACOA.

SIX APPLICATION PRINCIPLES

- High water volumes
- Rates of between 0.5% - 2%.
- Ideally, use multiple applications, 10 days apart.
- Ensure thorough coverage of the plant.
- Constant agitation in the tank.
- Avoid spraying when plants are stressed.

FIND OUT MORE

Further information is available at www.sacoa.com.au or by contacting SACOA on 08 9386 7666 or contact your local SACOA representative;

- Jamie Cox
North Eastern Regional Manager
0427 100 065
- Damon Fleay
Western Regional Manager
0427 425 702

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