

TrichoProtection[™]

TrichoProtection is a system developed in New Zealand in a co-operative venture between Agrimm Technologies Ltd. Christchurch and McHort. Selected strains of the beneficial fungus Trichoderma are formulated for strategic application during plant propagation and production.

TrichoDry™ Nursery is a fine granular format designed for incorporation into propagation and growing media.

This is followed-up with TrichoFlow™ Nursery a wettable powder format applied as a drench to the root zone of in situ crops. Rapid colonisation of the *Trichoderma* in the root zone helps exclude plant pathogens such as root rots. Trichoderma forms a living barrier around your plants' roots that can be sustained with regular monthly re-applications.

TrichoSpray[™] Nursery is a wettable powder formulation of selected Trichoderma that can colonise leaves, stems and flowers. This surface colonisation then forms an inhibitive barrier against other fungal pathogens, principally Botrytis. Application as a foliar spray is targeted at crops in propagation and beyond. Initial experience combining TrichoSpray Nursery in a tank mix with Plant Soap PS1 looks very positive. Anecdotal information would seem to suggest that the combination application is effective against a broad range of pests & diseases.

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TrichoDry[™] Nursery



TrichoFlow™ Nursery



TrichoSpray[™] Nursery



Biological Pest & Disease

pest & disease in woody ornamental production.

McHort have extensive practical experience controlling

We offer training for you & your personnel in the art of

integrated pest & disease management using cultural,

training modules are tailored to suit your specific needs

biological & chemical methods. Our popular on-site

and capabilities. Proven systems for pest & disease

identification & monitoring are complimented by top

quality, locally produced, products that really work.

compromising crop health & quality, we need to talk.

This whole area of reduced, or chemical free, pest & disease control is evolving fast. We travel extensively,

both locally & overseas, to bring to you the very latest

McHort are the undisputed experts in this exciting field

of crop husbandry in New Zealand today.

Contained in this brochure are some of the tools we have

If you would like to reduce chemical use without

found to work for our clients.

products & techniques.

Control











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The GOOD BUG BOOK An essential reference for all those interested in an integrated pest management programme. Packed with color pictures of both plant pests and their natural enemies. Includes detailed diagrams of life cycles and chemical compatibility charts. Written for local conditions.



Hypermites

Hypoaspis sp. Predator mites.

Are used for the suppression of harmful insects in the root zone of container grown crops during propagation and beyond. They are especially effective against Sciarid fly maggot, thrip pupae and root mealy bug. UK growers use Hypoaspis to control Black vine weevil.

Hypoaspis is native to NZ and well adapted to our production climate. The brown to orange coloured adult mites grow to about 1mm in length. See opposite. Development from egg to adult takes 17-18 days or somewhat longer in lower temperatures.

Hypoaspis has a varied diet consisting of soil borne pests but also mould mites which are found in great numbers in commercial potting mixes. This alternate food source ensures good colonization and survival rates of Hypomites in our growing system.

Essentially a below soil dweller Hypomites can occasionally be seen at the base of plants.

Many foliar applied insecticides can be used without harming the Hypomites. See the Good Bug Book for details of compatibility.

Apply the peat & vermiculite carrier containing Hypomites to propagation/growing media surface. A 1 ltr. pack will treat about 90 trays. Reduce Sciarid fly infestations with a knock-down sprays of Natural Pyrethrum, PS1 Plant Soap or Bascillus thuringiensis in advance of introducing Hypermites.

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Hypermite



Sciarid fly maggot



Sciarid fly adult



Plant Soap PS1

Simply, this high viscosity plant extract, when diluted in water & sprayed onto plant leaves & stems infested with crawling insects, covers and suffocates them. The most likely effected plant pests would be those that breathe through their exoskeletons and are less, rather than more, mobile. Whilst we make no specific claims as to controlling any specific pests, those that are less mobile would include Scale, Mealy bug, Whitefly egg stage, Spider mite juveniles, Thrips, and Aphids.

This methodology offers virtually no residual effect on the plant and little, if any, effect on highly mobile pollinating or predatory insects. Being a plant extract, the likelihood of toxicity to either mammals, or the environment, is considered to be very low.

Apply as a high volume spray to run-off to both sides of the leaves of infested plants @ 3-5ml per ltr. Ensure the longest possible interval between application and either overhead irrigation or rainfall.



We have not received any reports of burning, but please avoid spraying under high light intensity. Trial on a modest scale first. Repeat applications will most certainly be better than isolated use infrequently.

Apply at 3-7 day intervals. Add Plant Soap to the nearly filled volume of diluting water to avoid foaming.

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