PROUDLY MADE IN AUSTRALIA

GREENSEAL®

THE ULTIMATE PRUNING WOUND DEFENCE

For the control of *Eutypa* dieback of grapevines;
Botryosphaeria and *Eutypa* dieback of almonds;
Silver leaf on apples and cherries.

03 5133 9118
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omnia NUTRIOLOGY®
*the science of growing

Greenseal® is a specially developed pruning wound dressing, incorporating a fungicide Tebuconazole @ 10g/L, into a tough rubber like acrylic resin. Greenseal® is easy to apply, UV resistant, flexible, waterproof, dries quickly and encourages callusing to ensure rapid wound closure. During pruning, trees and vines are exposed to various fungal infections of the wood which can easily gain access via the new wounds.

Greenseal® seals the wound but also stops fungal infections of airborne spores to the exposed pruning wound.

WHAT IS *EUTYPA LATA*?

- *Eutypa lata*, known as "dead arm disease" in grapevines and lower limb dieback in almonds.
- The fungus will also attack pome fruit, stone fruit, poplars, willows and numerous other deciduous trees.

Evidence of *Eutypa Lata* infection

SYMPTOMS

- Spores of *Eutypa lata* invade the vine and tree via pruning wounds or physical damage and slowly colonize "woody" tissue.
- Infected vines and trees have a yellowed, stunted and distorted appearance due to various toxins produced by the fungus growing in healthy and stained wood.
- As invasion of woody tissue progresses, foliar symptoms become even more severe. This leads to a decline in productivity and may ultimately cause vine or tree death.

WHAT IS SILVER LEAF?

Silver leaf (*Chondrostereum purpureum*) is a disease that affects both stone and pome fruit trees with rapid loss of production. Silver leaf is an airborne fungal infection that spreads mainly in late winter and early spring. Fungal spores are released during rain and infect via broken branches or pruning wounds.

The symptoms become more noticeable as the season progresses. The disease can potentially affect all parts of the tree decreasing production and, at worst, causing death.

Some of the consequences of Silver leaf include:

- Reduced leaf area
- Reduced root growth resulting in smaller and fewer fruit
- Reduced colour in apples
- An increased incidence of water core

Typical Silver leaf symptoms

BENEFITS OF GREENSEAL®

- Seals off pruning and grafting wounds or damage, for effective control of *Euytpa lata* and Silver leaf.
- Provides a flexible but hard, physical barrier against airborne spore entry.
- Ready-made, easy, refillable applicator.
- Assists in the plants natural healing process by promoting wound “callus” formation.

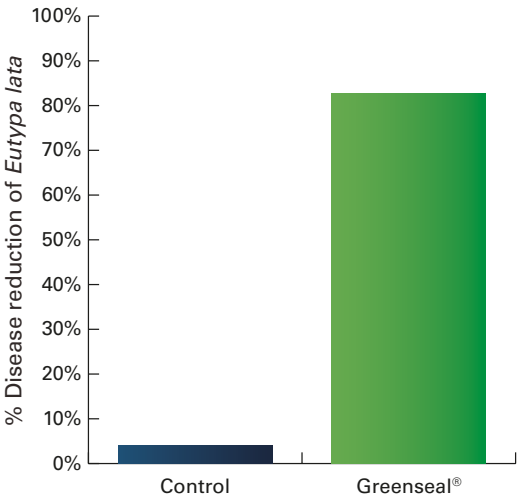
KEY FACTORS FOR EFFECTIVE WOUND PROTECTION WITH GREENSEAL®

- Prune on suitable days. Sunshine and low humidity conditions are ideal for rapid drying of the wound dressing and minimal post cut inoculum build-up. Avoid applying in damp conditions. Most bacterial and fungal infections of wood are most active in the wet winter period.
- Apply Greenseal® on the same day as pruning. Humidity rises at night and spore release may occur infecting untreated wounds.
- Apply generously. Apply a thick, even coat of Greenseal®, right to the edge of the wound to get the best protection. A second coat on very large wounds is always a good practice.
- All wounds that require secateurs or a saw to remove branches, require dressing with Greenseal®.
- Main stem. Pay extra attention to any pruning wounds made on the main leader. This is a vital part of the vine and may be the basis for a new canopy or a grafting opportunity.
- Additives / Paint. Never include additives to paint or apply unproven mixtures directly to wounds, as they may inhibit the natural wound healing response.
- Avoid using when sap flow is present, apply in dormancy period.

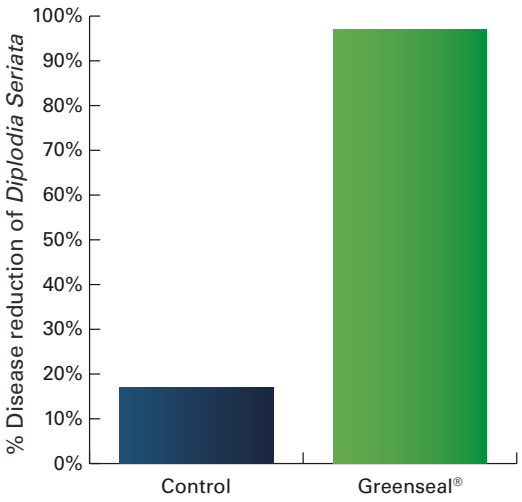
PRUNING TECHNIQUES

1. Use sharp, well maintained pruning equipment. Blunt loppers tend to squeeze tissue creating fissures which facilitate infection.
2. In tree crops, apply after large cuts are made.
3. Good pruning hygiene is beneficial for reducing spread.

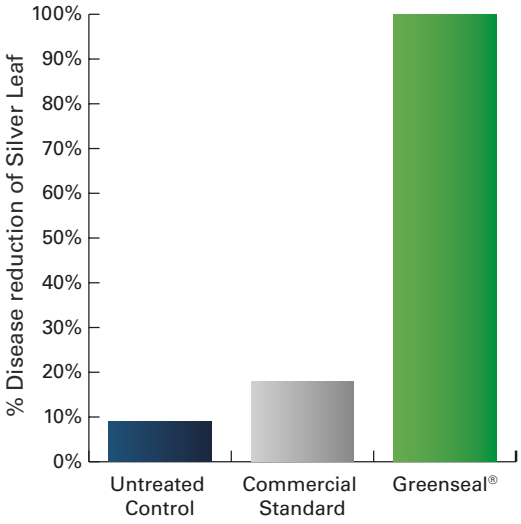
NURIOOTPA, SA INFECTION LEVELS OF *EUTYPA LATA* FROM INOCULATED WOUNDS



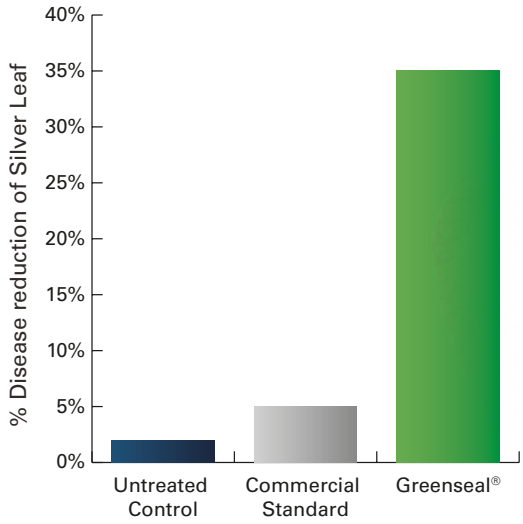
TRIAL: ALMONDS LOXTON, SA



TRIAL: CHERRIES DERWENT VALLEY, TAS



TRIAL: APPLES HUONVILLE, TAS



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