

ecocarb[®]

ORGANIC FUNGICIDE



ecocarb is a contact fungicide containing food grade Potassium Bicarbonate, specially formulated to make it biologically active against fungal diseases. **ecocarb** contains a unique surfactants system that enables it to be used at low rates with maximum efficacy and low risk of burn. When applied on a regular basis, **ecocarb** has been proven to control Powdery Mildew in most horticultural crops. It is APVMA registered for the control of Powdery Mildew in grapes and roses.

ecocarb is an organic alternative to conventional fungicides. It is safe to use in environmentally sensitive areas within IPM systems and unlike other “soft” Powdery Mildew sprays like milk or whey, it is effective under low light levels without the risks of lactose residues.

HOW DOES **ecocarb** WORK?

When applied to fruit or foliage, **ecocarb** changes the pH on the surfaces creating a more alkaline environment. This pH change disrupts the cellular processes of germinating fungal spores, inhibiting their growth and preventing their spread. **ecocarb** also damages the cell wall of fungal cells resulting in the dehydration and death of fungal vegetation, providing effective disease control.



Fungal mycelium before application



Fungal mycelium after application

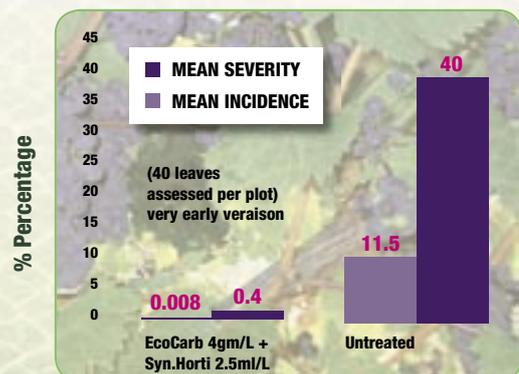
ecocarb IS REGISTERED EFFECTIVE AGAINST

- Powdery Mildew in grape vines
- Powdery Mildew in roses

ecocarb POWDERY MILDEW trials results in some key horticultural crops

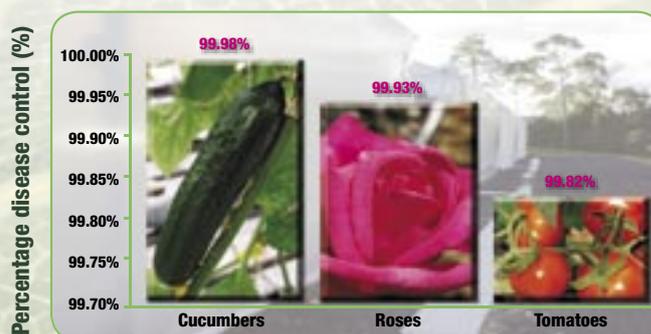
Powdery Mildew Control in Grapes

(%) mean incidence and severity February 16, 2004



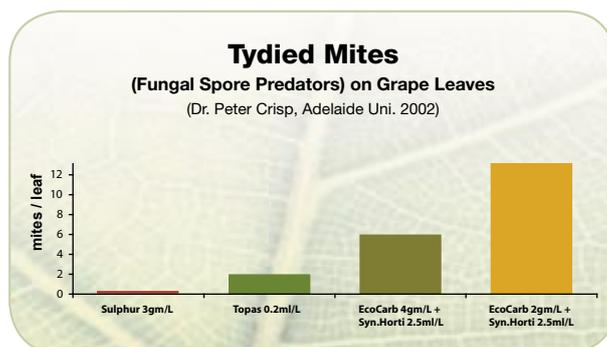
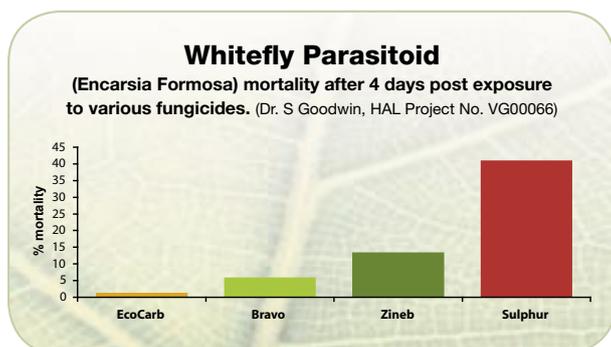
Dr. Kathy Evans TAS. DPI, Pooley's Vineyard 2003-04

Control of Powdery Mildew in a variety of crops using ecocarb (4gm) + Syn. Horti



Dr. Peter Crisp, Uni. Adelaide 2001-02

ecocarb IS COMPATIBLE WITH IPM



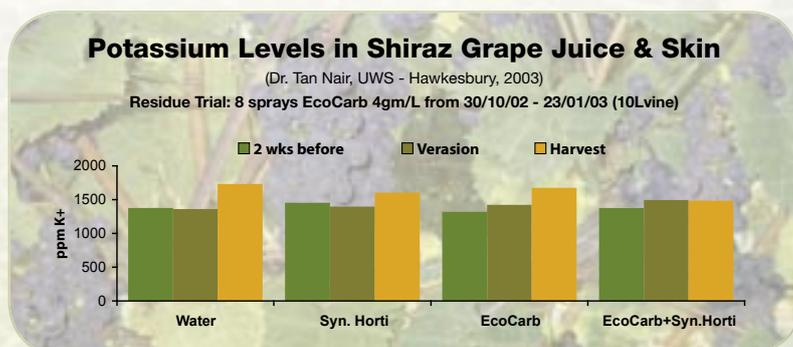
- Studies conducted at the National Centre for Greenhouse Horticulture have revealed that *Encarsia formosa* when exposed to direct sprays and residues of **ecocarb** and Synertrol Horti Oil had almost no effect on mortality rates. Trials conducted on *Phytoseiulus persimilus* (phytoseiid predatory mite) also resulted in no significant reduction in mite numbers after three applications of a combination of **ecocarb** 2.5ml/L and **ecocarb** at 3gm/L.
- Adelaide University Researchers have discovered the importance of tiny mites called Tydyed mites in grape vines that actively feed on Powdery Mildew spores. **ecocarb** appears to have the least impact on their numbers. Safety to *P.persimilus* and Tydyed mites would also indicate safety to other beneficial predatory mites like *Amblyseius victoriensis* and *Typhlodromus* spp. These mites are an essential part of IPM in many horticultural crops making **ecocarb** an attractive alternative to current fungicides like sulphur.

ecocarb USE PATTERN

Always use Synertrol Horti Oil with **ecocarb**. Field Trials over the past five years have proven that the addition of Synertrol Horti Oil increases the efficacy of **ecocarb** against Powdery Mildew.

Crop	Disease	Rate	Critical Comments
Grapevines	Powdery Mildew (<i>Oidium</i> spp.)	400 g/ 100 L plus 200 mL Synertrol Horti-Oil	Begin application at first sign of disease. Repeat applications at intervals of 10 to 14 days as new growth or infection occurs, or if conditions favour disease. Apply to ensure complete and thorough coverage of foliage.
Roses	Powdery Mildew	300-400 g/ 100 L plus 200 mL Synertrol Horti-Oil	Begin application at first sign of disease. Repeat applications at intervals of 10 days or more as new growth or infection occurs, or if conditions favour disease.

ecocarb AND POTASSIUM RESIDUES



Trials conducted by the University of Western Sydney (Hawkesbury) have proven that the Potassium in **ecocarb** does not enter the plant or berry and will not impact on juice or wine quality.



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