



## Plant Enhancer and Anti-evaporant Agent

In recent years the number and type of chemical control products has rapidly reduced. As a result farmers and growers are looking for alternative ways to manage and prevent pest and disease cycles.

Consumers are more aware than ever of pesticide residues on edible crops and have pressured leading multiple outlets to minimise the levels accepted. This has led to farmers and growers using more consumer and environmentally friendly products that offer similar yield and cost efficacies to the traditional chemical approach.

Orosorb contains a by-product derived from the citrus oil industry and acts as a plant enhancing material. Apart from cold pressed orange oil, it contains organic saponifiers and preservatives. Orosorb is also an anti-evaporant agent, as it lowers the surface tension of water, improving water penetration into the soil and reducing evaporation.



Field crops

Orosorb utilises a thin layer of natural waxes present on the plant's surface to form a protective barrier. This barrier, when combined with the lowered water surface tension, reduces the build up of moisture droplets on the plant, enabling the leaves to dry faster and reducing the time available for fungal spores to germinate.



Orosorb concentrate is supplied in unit sizes of 5 and 20 litres

Plants treated regularly with Orosorb are healthier and frequently exhibit greater resistance to some pest and disease attacks.

It is well known that environmentally stressed plants are more susceptible to pest and disease attack. The regular use of Orosorb has been proven to stimulate root growth, foliage development and crop production; improved plant growth makes the crop less susceptible to environmental stress due to heat and evaporation loss.

No harvest interval need be observed when treating plants with Orosorb, there are no special storage conditions or restrictions to its use. Orosorb is suitable for use in Integrated Pest Management systems and has been successfully used on a wide variety of crops: field vegetables, protected vegetables, top and soft fruit, nursery stock and ornamentals. Orosorb is beneficial on young plants once they are showing four true leaves.



Protected crops



Field vegetables



Soft and top fruit



Nursery and ornamentals

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# Alternative Technologies

## Additional benefits

Due to surfactants used in the manufacture of Orosorb, treated plants often have cleaner brighter fruits.



Strawberries



Tomatoes

## Nutritional Data

Nutrient	mg/L
total phosphorous	≥ 5
nitrogen	20.1
sulphate	2630
total boron	755
calcium	26.5
total copper	≥ 5
total iron	4.72
magnesium	≥10
potassium	93.8
sodium	10500

## Application rates

Best results have been achieved by weekly applications of Orosorb at the following rates:

Protected crops:	200 ml/100 litres
Field crops:	up to 500 ml/100 litres
Water volume:	between 250 litres/hectare for young plants to 1000 litres/hectare for dense crops to ensure coverage.

To obtain the best results ensure Orosorb is sprayed at the recommended dose and that it moistens all leaves on both sides. Plants should be checked to ensure adequate coverage is being achieved; spray equipment should be adjusted if necessary.

- ❖ Do not exceed the recommended rates of application and do not use more than 4 litres of Orosorb/hectare on a single application.
- ❖ Care must be taken to ensure the spray tank and hoses have been thoroughly cleaned before applying Orosorb, and again after spraying. Orosorb should only be tank mixed when advised to do so by a consultant.
- ❖ Avoid spraying in direct sunlight, early morning applications have been shown to be more effective than afternoon or evening applications.
- ❖ Avoid spraying flowers as some damage may occur. Leave a ten day interval before applying Orosorb to crops which have previously been sprayed with copper or sulphur based products.

## General efficacy data

COMPOSITION/INGREDIENTS	Orange oil, surfactants, borax
HARVEST INTERVAL	0 days
CROP RESTRICTIONS	None
CROP CLEARANCE/FIELD USE	Plant stimulant. Anti evaporant agent
PRODUCT EFFICACY	Effective as part of a protective program, used regularly through stressful plant periods
COMPATIBILITY WITH IPM	25% where used as a regular blanket treatment
COMPATIBILITY WITH CHEMICALS	Can be mixed with most fungicide and insecticide products
FREQUENCY OF USE	Every 7-10 days
METHODS OF USE	Spray, drench and through irrigation
STORAGE REQUIREMENTS	Cool but frost free, out of direct sunlight
YEAR RELEASED	2002
TRIALS DATA	2002/2003 on soft fruit, field vegetables and ornamentals
COUNTRY OF ORIGIN	South Africa