

Corasil™ – The Citrus Fruit Sizer



SPEcNote

Corasil is a plant growth regulator used for increasing the fruit size of citrus. It provides growers with the opportunity to significantly improve the packout performance of oranges and mandarins.

>> Introduction

Orange and Mandarin fresh fruit markets in Australia and overseas consistently offer premium prices for larger sized fruit. The use of Nufarm Corasil Plant Growth Regulator (PGR) offers growers an easy, simple and cost effective way of increasing fruit size.

The product is already used effectively and extensively through other citrus producing countries including Spain and South Africa in improving fruit size.

>> Increased Fruit Size

In field trials conducted by Nufarm and independent research organisations, in commercial orchards, Corasil PGR has consistently increased fruit size and as a result significantly improved pack-out performance.

The following large scale trials were conducted through NSW Agriculture and demonstrate the average increase in fruit size when Corasil PGR is used and compared to an untreated control area.

While the increases only appear to be minor the size increase obtained will improve pack-out performance, and dollar returns per hectare.

>> Fruit Thinning

Results from trials in Australia have shown no significant levels of fruit drop when the product is used at label rates and at the timings recommended. The fruit size increases seen can be attributed to the Corasil PGR increasing individual cell size in the fruit, and not due to decreases in fruit numbers.

>> Mode of Action

The active constituent in Corasil PGR is dichlorprop-P, an auxin based growth regulator. The product mimics a group of natural plant hormones known as auxins and increases fruit size by enlarging individual cells within the fruit.





>> Recommended Use Rates

Crop	Rate per 100L of Water
Mandarins	100mL to 200mL
Oranges	200 mL

>> Overseas Export

MRL's have been established in Australia and globally for the active ingredient of Corasil – dichlorprop-P.

>> Withholding Period

Corasil has a nil withholding period if used according to label directions.

>> Application

Corasil PGR should be applied as a dilute spray. The sprayer should be set up and operated to achieve even coverage throughout the crop canopy and apply sufficient water to cover the trees to the point of runoff.

As a general guide the following water volumes should achieve suitable spray coverage:

Citrus Tree Size	Litres Per Hectare
Small	2,000
Medium	4,000
Large	5,000
Very Large	7,500

The above table shows approximate application rates per hectare.

To aid spray coverage the use of Spraymate® Activator® Surfactant at a rate of 125 mL/100 L of water or Spraymate LI-700® at 100mL/100L is recommended.

Applicators must also be aware that the active ingredient in Corasil PGR, dichlorprop-P, may damage susceptible crops such as vines if spray drift occurs. Care needs to be taken to minimise any spray drift.

Situation	Rate per 100L of Water	Critical Comments
Mandarins	100mL to 200mL	Apply to fruit of the following sizes: Mandarins: 8 to 20mm. Oranges: 12 to 30mm. These size ranges approximate the period of physiological fruit drop. Only use the lower rate in mandarins at early timings. Application to small fruit may increase fruit drop.
Oranges	200mL	Apply in a spray volume of 2500 to 3000 L/ha for trees of 4 metres height with a MEDIUM to COARSE spray quality, ensuring thorough coverage of the foliage. If spraying at higher volumes (e.g. 5000 to 6000 L/ha) then the rate of Corasil should be reduced in direct proportion to the spray volume increase. If spraying at a lower volume, the rate of Corasil should be increased in direct proportion to the spray volume decrease.

For more information contact your Nufarm Regional Office:

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