

Promalin “Best Use” Bulletin

Promalin

A new liquid plant growth regulator for more marketable fruit

Key Features

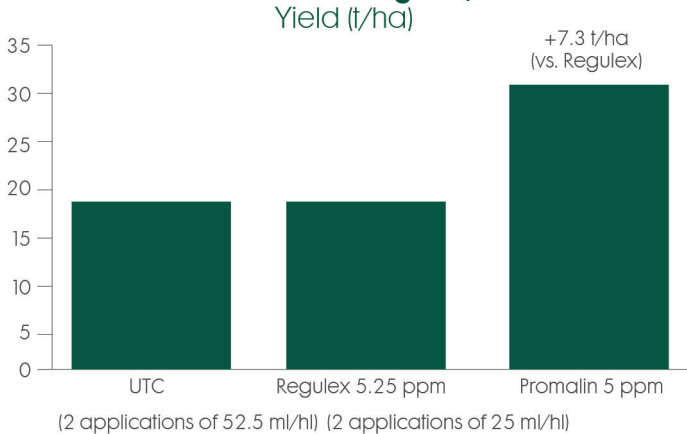
- Proven benefits of Gibberellins plus 6-Benzyladenine (Cytokinin PGR) at 19 g/l.
- Results show added fruit set, size and russet control benefits.
- The two ingredients in Promalin contribute to increase fruit yield and quality: 6-BA stimulates cell division, and GA4+7 causes cell expansion. These effects only take place during the very early development of the fruitlet. The result is leaves and fruit with more cells and larger cells. In addition, the gibberellins help reduce fruit russet and improve overall fruit finish.
- Widely proven in Europe, now available in the UK.

Label rates:

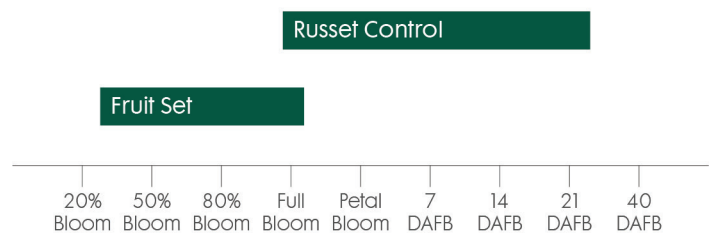
Crop	Use Directions	Rate l/ha	Minimum Interval Between Treatments
Apple	For fruit russet control and fruit sizing; start applications between full bloom and petal fall and continue at 7-12 day intervals. Earlier applications and shorter intervals are recommended when russet conditions are severe (i.e. long cold wet periods during bloom).	0.25-0.50	7-12 Days
Pear	For fruit set increase; apply from start of flowering to petal fall.	0.25	2 days

Promalin at these rates has shown improvement in fruit yield and quality over standard gibberellins in responsive situations (poor blossom / fruit set, high russet risk):

Field trial results with Promalin – Pear Fruitset ‘Conference’ – Belgium, 2009



Optimum timings for Promalin



Note: DAFB = days after full bloom
Optimum timings based on 20 year's trials and commercial experience

VBC Rep: Michael Schröder
Cooperator: Proefcentrum
Fruitleeft v.z.w.
Study 2009MSCHR320

Copr: Pear
Cultivar: Conference
Application Date: April 15 & 20
(BBCH61 & 67)

Site: Wilderen (Sint-Truiden)
Country: Belgium

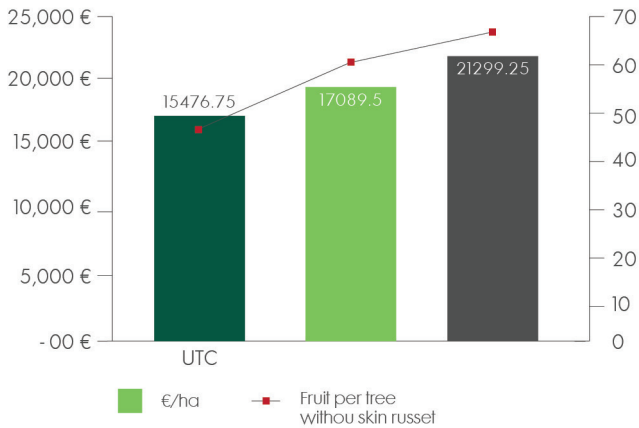
To find out more visit:
www.nufarm.com/uk



Grow a better tomorrow

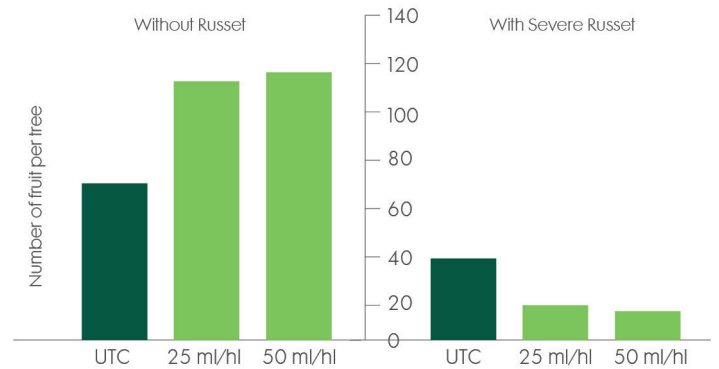
Promalin

Economic Return (€/ha) & number of fruit per tree without skin russet



Hiebler, Hiebler Ag Engineering Service, Steiermark, Austria
 Mean of 4 studies on Arlet (1x) & Golden Delicious (3x)
 conducted in 2007 (1x) 2008 (2x) & 2009 (1x)
 4 applications from petal fall at 7 to 13 day intervals

Effect of Promalin on Skin Russet EU Central (NL, BE, AT, DE, North FR)



Mean values from 13 studies in EU Central conducted between 2007 & 2009
 Austria (5x), Belgium (2x), France North (3x) & Germany (3x)
 Arlet (1x), Cox's Orange (1x), Golden (9x) & Wellant (1x)

- In recent seasons in less-responsive situations in grower and replicated plot trials in the UK, Promalin has been found to give comparable responses to standard 100g/L gibberellins, at the corresponding repeat low doses usually advised.
- Promalin also offers unique extra benefit of 6BA.

Rate comparison table:

Product	Rate L/ha	Gibberellins g/ha	6BA g/ha
Promalin	0.10	1.9	1.9
10% gibberellin min. rate	0.2	2	0
Promalin for 2g GA	0.11	2	2
Promalin	0.15	2.8	2.8
10% gibberellin average rate	0.3	3	0
Promalin for 3g GA	0.16	3	3
Promalin label low rate	0.25	4.75	4.75
10% gibberellin max. rate	0.5	5	0
Promalin for 5g GA	0.27	5	5
Promalin max. rate	0.5	9.5	9.5

Promalin at 0.5 of chosen Novagib rate -
 85% of GA rate, plus same again of 6BA

Promalin at 0.53 of chosen Novagib rate -
 same amount of GA, plus same again of 6BA

Use plant protection products safely.
 Always read the label and product information before use.

To find out more visit:
www.nufarm.com/uk



Grow a better tomorrow