

# Apogee plant growth regulator technology sheet

apples  
& cherries

A unique mode of action for fire blight suppression in apples.  
Early-season reduction of shoot growth in apples and cherries.

- Apogee® Plant Growth Regulator reduces fire blight in apples by stimulating the tree to produce high concentrations of antibacterial compounds, thickening cell walls to resist infection and increasing air and light penetration in the canopy
- By controlling new shoot growth in apples and cherries, Apogee saves both time and cost associated with pruning, allowing you to focus resources on other activities. Apogee inhibits the production of natural plant hormones in developing shoots, reducing shoot extension and vegetative growth

## Active ingredient

Prohexadione calcium

## Formulation

Wettable granules

## One case contains

4 x 2.27 kg jugs

## Storage

Store in cool, dry, locked, well-ventilated area without floor drain.

## Crops

Apples and cherries

## Timing

The first application should be made when shoot growth is 2.5 to 5 cm in length.

Make a second application 14 days later.

Monitor for re-growth after second application and re-apply if necessary.

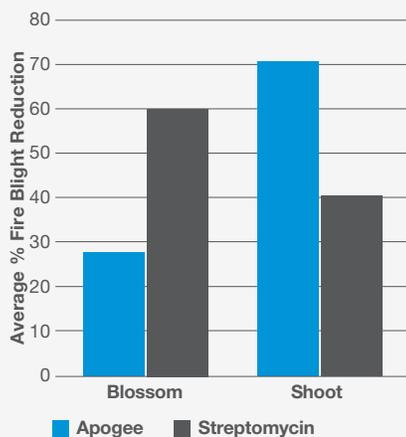
## Product activity

Fire blight reduction (apples only)  
Growth suppression

## Timing



Fire blight reduction in apples



Source: EPPO Bulletin 34:383-388

Shoot growth reduction in apples



Source: Apogee Trial (BC). Applied May 6, 20 and June 9.  
Rate: 45 g/100 L

Fire blight reduction in apples



Photos courtesy of Kathy Hoskiw, Niagara, ON, 2016

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## Application rates

**One jug of Apogee plant growth regulator will treat 1.68 to 2.8 ha (4.16 to 6.9 acres).**

Fire blight suppression and medium to high vigour trees (split applications)	45 g/100 L
Low to medium vigour trees (split applications)	27 g/100 L
Low vigour trees (single application)	27 to 45 g/100 L

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## Mixing order

1. Ensure the spray tank is clean before use.
  2. Fill the spray tank 1/2 full of water and start agitation.
  3. Add the required amount of ammonium sulfate.
  4. Add the required amount of Apogee plant growth regulator to the tank.
  5. Add the required amount of adjuvant.
  6. Continue agitation while filling the remainder of the spray tank.
  7. After use, clean the spray tank according to label precautions.
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## Application tips

**Rainfastness** – 8 hours.

Longer drying times promote uptake which may enhance performance.

**Restricted entry interval** – 12 hours.

For fire blight control, use Apogee in a planned program that also includes antibacterial products.

Apogee is not systemic. To optimize performance, use adequate water volumes to provide thorough coverage.

Use a non-ionic surfactant at 50 ml/100 L water to improve coverage and absorption.

Add ammonium sulphate at a 1:1 ratio with Apogee to pre-condition spray water.

Do not use Apogee on Empire and Stayman apple varieties. The use of Apogee on these varieties has been associated with an increase in fruit cracking.

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## Pre-harvest interval

45 days for apples.

20 days for cherries.

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## Tank mixes

Apogee is compatible in a tank mix with most commonly-used pesticides.

Do not apply Apogee within three days of applications of other plant growth regulators or calcium products.

BASF has not evaluated all possible Apogee tank-mix combinations on all varieties or under all environmental conditions. Before using any new tank mix, conduct a jar test to ensure physical compatibility and treat a small portion of the crop to ensure safety before treating the entire crop.

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## For more information

Call **AgSolutions**<sup>®</sup> Customer Care at 1-877-371-BASF (2273) or visit [agsolutions.ca/horticulture](http://agsolutions.ca/horticulture).

**Always read and follow label directions.**