



## MaxCel® Frequently Asked Questions (FAQs)

### 1. What is *MaxCel*?

A NEW apple fruitlet (post-bloom) thinning agent.

### 2. What is the active ingredient in *MaxCel*?

*MaxCel* contains 6-Benzyladenine (6-BA), a cytokinin-type plant growth regulator (PGR) that induces cell division.

### 3. Is *MaxCel* like other thinning agents?

No. In addition to thinning, *MaxCel* also stimulates fruit growth. This results in increased fruit size above that which would be expected from the thinning effect alone.

### 4. How is *MaxCel* different from other thinning agents?

*MaxCel* is an improved, second-generation PGR containing pure 6-BA. It has a unique, superior formulation for better performance.

### 5. Has *MaxCel* been tested in the field?

Yes. The active ingredient in the *MaxCel* formulation has been thoroughly researched as a thinning compound for over 20 years. *MaxCel* has been extensively field tested since 2000. *MaxCel* has also been used commercially in over 10 countries since 2004.

### 6. Which apple varieties can I treat with *MaxCel*?

All apple varieties may be treated with *MaxCel*.

### 7. What are the benefits of *MaxCel*?

*MaxCel* is a key component of a thinning and sizing program for most apple cultivars. Due to its growth promoting action, it will increase fruit size beyond the direct thinning effect, or even when thinning is inadequate. *MaxCel* also increases return bloom and reduces alternate bearing.

### 8. What is the mode of action of *MaxCel*?

From bloom through fruit set, the demand for energy exceeds supply. *MaxCel* shifts the sink / source relationship enhancing competition between fruit and vegetative growth. This causes the lateral (weakest) fruit to be shed and king (strongest) fruit to remain.

### 9. What is the application window for *MaxCel*?

Timing: 7 - 15 mm fruit size (optimum 10 - 12 mm).

**10. Does *MaxCel* work in any type of weather?**

Temperature is very important. Apply *MaxCel* when day temperatures will be 18°C or above for 2-3 days after application. *MaxCel* normally performs better with an upward temperature gradient.

**11. What is the recommended dose rate of *MaxCel*?**

Use Rate: 100 - 150 ppm (500 - 750 ml / 100L)

Rate / Ha: 5 - 7.5 L/ha, based on 1000 L/ha. Rate is depending on variety, temperature, thinning program and desired thinning effect. Lower temperatures reduce effectiveness  
(Discuss dose rates with your local *MaxCel* representative.)

**12. Do I need to use high spray volumes per hectare to apply *MaxCel*?**

No. Spray *MaxCel* in a sufficient amount of water to ensure coverage of fruits and leaves without excessive runoff. Water volumes of 1,000 L / Ha typically provide good results.

**13. How long should I expect to wait to observe the *MaxCel* thinning response?**

*MaxCel*'s benefits can be observed within 10-20 days following treatment.

**14. Is *MaxCel* compatible with IPM programs?**

Yes. The active ingredient in *MaxCel* is a naturally occurring plant growth regulator and will not alter the ecological balance in the orchard.

**15. Can I use other thinning agents when I use *MaxCel*?**

*MaxCel* is normally used in a thinning program with bloom and fruitlet thinners.

**16. Can I tank mix *MaxCel* with NAA?**

Yes. *MaxCel* can be tank mixed with NAA where more aggressive thinning is required.

**17. Will *MaxCel* cause “pygmy fruit” in susceptible varieties?**

No. *MaxCel* does not cause pigmy fruit. In tank mix combinations with NAA on certain varieties or late applications, NAA can cause some pygmy fruit.

**18. Can *MaxCel* be used with *Regulex*® or *Promalin*® in fruit size, russetting control and thinning programs?**

Yes. *MaxCel* can be used in combination with *Regulex* or *Promalin* to increase fruit size, reduce russet and enhance thinning.

**19. Do I need to use an adjuvant (surfactant, wetting agent, etc.) with *MaxCel*?**

No. Adjuvants are not necessary.

**20. Is *MaxCel* cost-effective?**

Yes. In most orchards, *MaxCel* improves fruit size and pack-out beyond the thinning effect. A small shift in fruit size categories will more than pay for the investment in *MaxCel*. *MaxCel* also improves return bloom and reduces hand-thinning time (costs).

MAXCEL and VALENT BIOSCIENCES are trademarks of Valent BioSciences Corporation.  
Valent BioSciences Corporation owns registrations for these marks in the United States and elsewhere.