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MaxCel
PLANT GROWTH REGULATOR

For apple and pear fruit thinning, sizing, and enhanced return bloom

COMMERCIAL
Solution

KEEP OUT OF REACH OF CHILDREN
READ THE LABEL BEFORE USING

ACTIVE INGREDIENT: 6-benzyladenine. ...1.9 % by weight

REGISTRATION No. 28851
PEST CONTROL PRODUCTS ACT

Lot. No.

Net Contents (Litres): 3.8

Date of Manufacture:

EPA Est. No.

Valent BioSciences LLC
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Libertyville, Illinois 60048 USA
Tel. 1-800-323-9597

Valent Canada, Inc
201-230 Hanlon Creek Blvd
Guelph, Ontario N1C 0A1

DIRECTIONS FOR USE:

IMPORTANT: Before application, read all directions thoroughly. Use MaxCel Plant Growth Regulator only as directed.

MaxCel Plant Growth Regulator contains 1.9% (w/w) 6-benzyl adenine (6BA). 6BA is a potent plant growth regulator belonging to the group of growth regulators known as cytokinins.

Do not apply this product through any type of irrigation system.

Airblast application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side. DO NOT apply by air.

- Apply in the morning or evening when conditions are best for slow drying (cooler temperatures and higher humidity) in order to ensure adequate absorption of the product.
- Avoid applications when foliage is visibly wet with dew.
- To minimize foaming of spray solution, reduce agitation and add the product to the tank after filling to ½ capacity with water.
- For best results, water pH should be between 5-7; do not exceed pH of 8.5.
- No surfactant is required.
- Apply in a sufficient amount of water to ensure adequate coverage of leaves and fruit. Use calibrated spray equipment to ensure uniform application. Adjust water volumes based on tree size and spacing. In most cases, spray volumes of maximum application 1000 liters per hectare per treatment have been shown to be adequate.
- Do not exceed a total of 22.5 litres (446 grams of 6BA) per hectare per season for all uses.
- Direct 80 % of the spray into the upper 2/3rds of the tree canopy.
- Applications will be most effective when the maximum temperature on the day of application and for the following 2-3 days is 18°C or higher.
- Avoid spraying MaxCel Plant Growth Regulator when ambient temperatures exceed 30°C.

Tank Mixing: This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Valent BioSciences LLC at 1-800-323-9597 for information before applying any tank mix that is not specifically recommended on this label.

APPLICATION INFORMATION

CROP	USE	APPLICATION RATE	SPRAY VOLUME	SPRAY TIMING
Apple	For enhancement of fruit size ¹	Apply 10 to 50 ppm spray concentration. (refer to dilution table for assistance)	Use sufficient water volume to ensure complete coverage of leaves and fruit without excessive loss. Approximately 1000 liters per hectare.	Make 2-4 applications, starting at petal fall, and continuing at 3-10 day intervals.
	For fruit thinning, sizing, and enhanced return bloom	Apply 75 to 200 ppm spray ² concentration. (refer to the dilution table for assistance)	Use sufficient water volume to ensure complete coverage of leaves and fruit without excessive loss. Approximately 1000 liters per hectare.	Apply when the average diameter of king fruitlets is between 5-15mm diameter. Do not apply more than twice in a season. ³
Pear	For fruit thinning, sizing, and enhanced return bloom	Apply 50 to 200 ppm spray ² concentration. (refer to the dilution table for assistance)	Use sufficient water volume to ensure complete coverage of leaves and fruit without excessive loss; Use 1000 to 2000 liters per hectare	Apply when the average diameter of fruitlets is between 8-14 mm diameter. Do not apply more than twice in a season. ³

¹This use may cause fruit thinning in some easy to thin varieties, favorable for thinning.

²Use higher rates in orchards that have a history of being difficult to thin, in varieties known to be difficult to thin, and in cool weather situations.

³Generally, only one application is recommended for fruit thinning. If a second application is desired to obtain additional thinning:

1. Allow 7-10 days to observe the effect of the first application.
2. Spray the second application before the average diameter of king fruitlets exceeds 20mm in diameter.

Do not apply within 28 days of harvest.

Do not exceed a total of 22.5 litres (446 grams of 6BA) per hectare per season for all uses.

BRANCHING APPLICATION

To increase lateral bud break and branching of nursery stock and non-bearing orchard trees and to improve branch angles and tree structure.

CROP	APPLICATION RATE	SPRAY VOLUME	SPRAY TIMING
Apples (Nursery Stock and Non-Bearing Trees in the Orchard)	Apply 250 to 500 ppm spray concentration. (refer to dilution table for assistance)	Use sufficient water volume to ensure complete coverage of leaves without excessive loss.	Make first application after trees have reached a height at which lateral branching is desired. Make 1-4 applications at targeted sites where additional branching is desired as tree height increases through the season. Applications can be made each time the main leader adds 12 to 15 cm of new growth, or about every 10-14 days.

Additional Instructions:

- Add a buffer or acidifier as needed to keep the final spray solution between pH 5-7.
- In the orchard, make a precision application targeted at the site where branching is desired using a single nozzle such as with a backpack sprayer, squirt bottle, or single nozzle on an orchard or boom sprayer. In the nursery, targeted site applications may also be made with more than one nozzle on orchard or boom sprayers, using sufficient water for good coverage without reaching the point of runoff.
- Deliver 2-4 mL spray solution to the shoot tip of each tree targeting the uppermost leaves that are still expanding.
- Do not tank mix with streptomycin or apply streptomycin on the same day.

MaxCel Plant Growth Regulator Dilution Table

Volume of MaxCel Plant Growth Regulator per volume of spray required to obtain given ppm concentrations.

Solution Volume Liters (L)	Concentration									
	10 ppm	25 ppm	50 ppm	75 ppm	100 ppm	125 ppm	150 ppm	175 ppm	200 ppm	500 ppm
380 (100 U.S. gal)	190 ml	475 ml	950 ml	1.42 L	1.9 L*	2.38 L	2.85 L	3.33 L	3.8 L	9.5 L
1000	470 ml	1.25 L	2.5 L	3.75 L	5.00 L	6.25 L	7.50 L	8.75 L	10L	25 L

*For a 100 ppm solution applied to 0.4 Ha (1 acre)

COMPATIBILITY:

MaxCel Plant Growth Regulator is compatible with a wide range of thinners and pesticides including formulations of SEVIN. If compatibility of MaxCel Plant Growth Regulator with another product and the resulting plant response is unknown, it should be tested on a small scale. Do not apply tank-mix combinations unless your previous experience indicates the mixture is effective and will not result in application difficulties or result in plant injury.

SEVIN is a trademark of Bayer Crop Sciences.

PRECAUTIONS:**KEEP OUT OF REACH OF CHILDREN**

Causes moderate eye irritation. Avoid contact with skin, eyes, and clothing. Wear a long sleeved shirt, long pants, and waterproof gloves when handling, mixing/loading or applying the product and during all clean-up/repair activities. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not re-enter or allow re-entry into treated areas until 12 hours after application.

FIRST AID:

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice.

Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

IF ON SKIN/CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS:

Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders and mites). Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

STORAGE:

Store this product away from food or feed. Store at temperatures below 25°C. Store container upright and keep tightly closed when not in use. After extended storage, vigorously shake or stir contents to assure a uniform suspension. This product should be used prior to the best before date indicated on this label.

DISPOSAL:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.