

STEER

PLANT GROWTH REGULATOR SUPPLEMENT

Plant growth stimulant for use in increasing fruit size and yield in sweet cherries, blueberries, bushberries and grapes.

COMMERCIAL

GUARANTEED ANALYSIS:

Forchlorfenuron.....1.00%

Registration Number: 2022721A Fertilizer Act

Lot Number: XXXXXX

Expiration Date: XX/XX/XX

**KEEP OUT OF REACH OF CHILDREN
READ THE LABEL AND BROCHURE BEFORE USING**

WARNING: EYE IRRITANT

Net Content: 1 L

Net Weight: 1.037 kg

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Distributed by:
N.M. Bartlett Inc.
4509 Bartlett Rd.
Beamsville, Ontario L0R 1B1
Canada
Tel: 905-563-8261

PRECAUTIONARY STATEMENTS:

KEEP OUT OF REACH OF CHILDREN.

Users should wear long-sleeved shirt, long pants, and shoes plus socks when handling the product.

FIRST AID

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious.

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

IF IN EYES: Flush immediately with plenty of water for at least 15 minutes, keeping eyelids open. Get medical attention if symptoms arise and persist.

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

ENVIRONMENTAL PRECAUTIONS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff is likely to occur. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate. Exposed treated seed may be hazardous to birds and other wildlife. Treat only those seeds needed for the immediate use and planting. Do not store excess treated seed beyond planting time. Dispose of all excess treated seed and seed packaging by burial away from streams and bodies of water.

Personal Protective Equipment

In case of frequent or prolonged use wear equipment specified below. Always check applicability with your supplier of protective equipment.

-Respiratory protection	Wear particle filter such as EN143 fitted with P-SL filter if exposure to high levels of material is likely.
-Skin protection	Laboratory coat or overalls
-Eye protection	Chemical goggles or full-face visor.
-Hand protection	Nitrile rubber or PVC gloves (Break-through times can vary depending on thickness, use and source. Change gloves regularly)
General hygiene	Do not eat, drink, or smoke while using this product. Immediately take off any contaminated clothing and launder before re-use. Wash hands and / or face before breaks and at the end of the shift

STORAGE

Store in tightly closed containers and prevent from contacting feeds, fertilizers, plants, seeds or pesticides. Do not subject to freezing temperatures.

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:

1. Triple- or pressure-rinse the empty container. Add the rinsate to the spray mixture in the tank.
2. 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 requirements.

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

If container is damaged and/or contents spilled contact manufacturer for instructions. Wear protective clothing and impervious gloves before handling spills or damaged products. For spills do not allow product to spread. Prevent entry into ditches and waterways. Cover spill with inert sweeping compound such as dry sand, clay or sawdust and place contaminated material into an approved waste container. Place damaged container into approved waste container and mark with contents.

NOTICE TO USER

This supplement product is to be used only in accordance with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

DIRECTIONS FOR USE

STEER has been shown to improve fruit size and fruit yield in blueberries and grapes. For specific benefits and effects, see the Use Directions within each crop section of this label.

- Product efficacy requires thorough coverage of the flowers and/or fruit. Uniform spray coverage is essential to achieve the desired results. See spray volumes stated in crop section to provide thorough coverage depending on tree, bush or vine size.
- For best results, apply STEER under slow drying conditions, e.g. early morning, late in the afternoon, or at night to insure adequate uptake.
- For best results, the water pH should be close to neutral, and always below 8.5.
- For best results, use adjuvants of a non-ionic nature or silicone type non-ionic surfactants and in amounts not to exceed 0.1% volume/volume (v/v). Be sure to follow surfactant label directions, especially for silicone-type non-ionic surfactants that are used at very low concentrations in the spray mixture.
- Do not apply STEER to plants under stress. If plants under stress are treated, the effect may be reduced.
- Do not exceed stated rates for each crop. Excessive rates of STEER can result in undesirable results.
- Do not apply this product through any irrigation system.
- Use only dilute sprays. Use kicker nozzles directed onto fruit from beneath the canopy on row and airblast sprayers.
- For airblast sprayers: Do not direct spray above plants/fruits/flowers to be treated. Turn off outward nozzles at row ends and outer rows. Do not apply when wind speed is greater than 16 km/hour at application site as measured on the upwind side. Do not apply by air. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark.
- Do not apply this product by Ultra-Low Volume (ULV) or concentrate methods.
- Do not apply STEER if rain is expected before sprays have dried completely.
- Do not use overhead irrigation until sprays of STEER have dried completely.
- Tank Mixing: Except when specifically noted in the Use Directions by Crop section, do not combine STEER in tank mixes with pesticides, adjuvants or fertilizers unless prior experience has shown the combination physically compatible, effective and non-injurious under conditions of use. If tank mixing is used, a jar test is suggested to test for physical compatibility and prevent crop injury. Follow the most restrictive labeling limitations and precautions of all products used in tank mixes.
- Consult your local agricultural representative for specific information on the best use recommendations for your particular crop.

Avoid spray drift into adjoining residential properties, orchards, aquatic habitats and roadways. Do not apply to any body of water. Do not contaminate irrigation/drinking water supplies or aquatic habitats when cleaning equipment and disposing of wastes.

TREE FRUIT

An application of STEER following the label directions will result in increased fruit size or yield as indicated in the crop specific instructions.

Application Instructions:

Make one application of STEER per year. Make sure that fruit are thoroughly covered to achieve desired results. Apply enough spray volume to achieve thorough coverage and avoid spraying to runoff. Use higher spray volumes for larger or dense foliage trees. See Table 1 for crop-specific rates and instructions.

DO NOT make more than one application per year. DO NOT exceed the maximum rate of 2.47 L per hectare per year.

Table 1: Use Directions for Tree Fruit

Crop	Application Rate per Hectare (ha)	Spray Volume (L/Ha)	Crop Specific Instructions
Cherries (Sweet)	988 ml/ha	935 – 1870	Use lower rate for intermediate fruit size increase. Use higher rate for maximum fruit size increase. Make one early application at bloom, at shuck split, or a later application at straw color to color break to increase fruit diameter. To promote increased resistance to splitting from rain, make application at color break. DO NOT harvest fruit for 7 days after application.
	1482 ml/ha —	935 - 1400	

The use of an adjuvant should not exceed 0.1% (v/v) and be non-ionic nature.

BLUEBERRIES: For increased berry size

An application of STEER following the label directions will increase berry size. Research has shown this response in rabbiteye blueberries grown in the Southeastern United States. The desired crop response is dependent on spray application timing in relation to the plant's physiological growth stage. Vigorous plants with capacity to support increased crop load have responded best to STEER applications.

Application Instructions:

Crop response to this product depends upon accurate, thorough application. Apply with ground sprayer only. It is important to wet all berries thoroughly. Apply enough spray volume to achieve thorough coverage and avoid spraying to runoff. For optimal response, base application timing on flower development. See Table 2 for crop-specific rates and instructions.

Table 2. Use Directions for Blueberries

Crop/Variety	Desired Crop Response	Application Rate per Hectare	Spray Volume (L/Ha)	Crop Specific Instructions
Blueberries	Improved fruit yield and increased berry size	494 ml product	935	Make one to two applications. Make the first application during bloom when 80% of the flowers have opened. If needed, make a second application at least 14 days after the first application, but no later than 21 days after petal fall.

Crop/Variety	Desired Crop Response	Application Rate per Hectare	Spray Volume (L/Ha)	Crop Specific Instructions
	To broaden harvest timing	988 ml product	935 - 2337	Make one application during bloom when 80% of the flowers have opened.

The use of an adjuvant should not exceed 0.1% (v/v) and be non-ionic nature.

Notes:

1. All varieties have not been fully tested. If less widely planted varieties are to be treated, smaller treatments are suggested until grower experience with variety is obtained. If additional information is needed, check with your local extension agent.
2. DO NOT exceed the maximum total dosage of 988 ml per hectare per year in blueberries.

BUSHBERRIES (Black Currant, Red Currant, Elderberry, Gooseberry & Lingonberry): For increased berry size

An application of STEER following the label directions will increase berry size. The desired crop response is dependent on spray application timing in relation to the plant's physiological growth stage. Vigorous plants with capacity to support increased crop load have responded best to STEER applications.

Application Instructions:

Crop response to this product depends upon accurate, thorough application. Apply with ground sprayer only. It is important to wet all berries thoroughly. Apply enough spray volume to achieve thorough coverage and avoid spraying to runoff. For optimal response, base application timing on flower development. See Table 3 for crop-specific rates and instructions.

Table 3. Use Directions for Bushberries

Crop/Variety	Desired Crop Response	Application Rate per Hectare	Spray Volume (L/ha)	Crop Specific Instructions
Bushberries	Improved fruit yield and increased berry size	494 ml product	935	Make one to two applications. Make the first application during bloom and the second application at least 14 days after the first application but not later than 21 days after petal fall.

The use of an adjuvant should not exceed 0.1% (v/v) and be non-ionic nature.

Notes:

1. All varieties have not been fully tested. If less widely planted varieties are to be treated, smaller treatments are suggested until grower experience with variety is obtained. If additional information is needed, check with your local extension agent.
2. **DO NOT** exceed the maximum total dosage of 988 ml per hectare per year in bushberries.

GRAPES:

An application of STEER following the label directions has been shown to increase berry yield or berry size, depending upon time of application. Color development may be delayed in colored varieties.

- For seedless or seeded grapes for fresh market, increased berry size improves cluster weight, total yield and pack out.
- For grapes grown for raisins, an application of STEER may improve the drying ratio by increasing soluble solids (sugar) accumulation.

Application Instructions:

Thorough coverage of the clusters is critical to achieve the desired response. Apply enough spray volume to achieve thorough coverage and avoid spraying to runoff.

Use lower concentrations to improve yield. Use higher concentrations for a greater response in berry size. See Table 4 for specified rates based on the desired results.

Due to an additive effect with Gibberellic acid, berry size can be further increased when combined in a tank mix solution with Gibberellic acid. The rates in Table 4 are for STEER alone.

DO NOT exceed the maximum rate of 2.47 L per hectare. DO NOT make more than one application per season.

Table 4: Use Directions for Grapes

Desired Crop Response	Application Rate per 935 L of Spray Mix	Spray Volume (L/Ha)
Intermediate size increase	494 ml product	935 - 3740
Intermediate size increase	741 ml product	935 - 2805
Maximum size increase	988 ml product	935 - 2337

Application timing for seedless/seeded grapes for fresh market:

Make one application per year when berries have reached the listed size, based on the average berry diameter in millimeters (mm). See Table 5 to determine the suggested berry size based on the grape variety.

Table 5: Berry Diameter for Application

Grape Variety	Average Berry Diameter (mm)
Thompson Seedless	6 – 10
Flame Seedless	8 – 14
Perlette	6 – 8
Ruby Seedless	9 – 12
Red Globe	14 – 20
Emperor	12 – 14
Other Seedless Varieties (Crimson, Fantasy, Black Beauty) ¹	10 – 14
Other Seeded Varieties ¹	12 – 16

Notes:

¹ All varieties have not been fully tested. If less widely planted varieties are to be treated, smaller treatments are suggested until grower experience with variety is obtained. If additional information is needed, check with your local agricultural advisor.

Make sure that the latest developing marketable clusters have completed shatter and final berry set by the time the application is made. To maximize berry size, use the highest rate of STEER in combination with Gibberellic acid (See the Gibberellic acid label for rates.). Preliminary field testing has indicated that STEER and Gibberellic acid tank mixes applied at the time of the second Gibberellic acid "sizing" spray will result in optimum berry sizing for common varieties such as Thompson Seedless..

Application timing for seeded grapes for wine:

The single. To increase berry size, make one application 14 to 21 days after the completion of berry shatter. The timing may vary by variety. All varieties have not been fully tested.

Application timing for grapes for raisins:

To improve berry yield, make one application at bloom. To increase berry size, make a single application when the berry diameter averages 8 to 10 millimeters. All varieties have not been fully tested. Most seedless raisin varieties will respond when treated using the rates and timings described above. Use lower rates to minimize size enhancement.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

FERTILIZER STORAGE: Store in original container only. Do not store in direct sunlight. Avoid freezing temperatures. After partial use, close the container tightly. Store in a secure place that is cool and dry. Use spray and stock solutions within 24 hours. Immediate use is required if another component is added to the spray solution.

FERTILIZER DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, if available, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by provincial and local authorities, by burning. If burned, stay out of smoke.]

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It is impossible to eliminate all risks associated with this Product. Plant injury, lack of performance, or other unintended consequences may result because of factors such as abnormal weather conditions, use of the Product other than in strict accordance with this label's instructions, presence of other materials,

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