

Container base label

BLUSH[®] 2X

PLANT GROWTH REGULATOR SOLUTION

Plant growth regulator solution for use on apples

COMMERCIAL

ACTIVE INGREDIENT:..... Prohydrojasmon... 10.00%

REGISTRATION NO. 34224 PEST CONTROL PRODUCTS ACT

WARNING – EYE IRRITANT

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

Manufactured by:
FINE AGROCHEMICALS LIMITED
Hill End House, Whittington
Worcester WR5 2RQ
United Kingdom
www.fine.eu

Distributed by:
N.M. Bartlett Inc.
4509 Bartlett Rd.
Beamsville, Ontario
L3J 0Z1, Canada
Tel : 905-563-8261

Net Contents: 0.5-200 litres

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Causes eye irritation. **DO NOT** get in eyes. Refer to attached booklet for more precautions, PPE and Environmental Precautions.

FIRST AID

IF SWALLOWED: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR 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.

STORAGE

Store this product away from food or feed. Avoid freezing. Store in original container only.

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 rinsings 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 or territorial requirements.

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for cleanup 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.

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IF ANY LABEL INFORMATION IS MISSING, CONTACT THE DISTRIBUTOR
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PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Causes eye irritation. **DO NOT** get in eyes. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before re-use.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, application, clean-up and repair.

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Apply only to agricultural crops when the potential for drift to areas of human habitation and human activity, such as houses, cottages, schools and recreational areas, is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

Do not contaminate feed or food.

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ENVIRONMENTAL PRECAUTIONS

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

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GENERAL INFORMATION

BLUSH® 2X Plant Growth Regulator Solution is a plant growth regulator for use on red apples to promote fruit colour development.

Apply BLUSH® 2X Plant Growth Regulator Solution in a sufficient amount of water to ensure thorough coverage of the tree canopy. Use properly calibrated spray equipment to ensure uniform coverage of fruit and foliage. Adjust water volumes based on plant size and spacing.

The effectiveness of applications of BLUSH® 2X Plant Growth Regulator Solution depends on crop variety, stage of fruit maturation and environmental conditions (e.g., temperature, light exposure, etc.). BLUSH® 2X Plant Growth Regulator Solution enhances the red colour on apple varieties that have difficulty developing colour. Under conditions where red colour development is acceptable (e.g., cultivars or strains that develop good red colour, orchards that typically produce apples with sufficient red colour development, environmental conditions in which red colour development is satisfactory), use of BLUSH® 2X Plant Growth Regulator Solution may not result in significant additional red colour.

To maximize effectiveness of BLUSH® 2X Plant Growth Regulator Solution, applications are to be made:

- After fruit have entered the maturation stage and natural colouring of the apples has begun.

Do not apply BLUSH® 2X Plant Growth Regulator Solution to trees that are injured or under stress (e.g., heat, water, disease, nutrient, etc.).

DIRECTIONS FOR USE

SHAKE BEFORE USING.

Do not enter or allow worker entry into treated areas until sprays have dried.

Do not apply by air.

BLUSH® 2X Plant Growth Regulator Solution should be applied using conventional spray application equipment. Do not apply this product using irrigation equipment.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Airblast application:

DO NOT apply when wind speed is less than 1 km/h. 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.

Direct 80% of spray to the upper 2/3rds of the tree structure.

Use a properly calibrated sprayer to ensure uniform and complete coverage of all foliage and developing fruit without run-off. Spray volume should be adjusted for tree size and density.

BLUSH® 2X Plant Growth Regulator Solution works best if climatic conditions allow an extended drying period. Apply in the morning or evening when temperatures are lower and humidity tends to be higher than during the day.

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 Fine Agrochemicals Ltd at 888-474-3463 for information before applying any tank mix that is not specifically recommended on this label.

Fine Agrochemicals Ltd has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank-mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

Additional Information

For best results applications should be made in no more than 935 L/ha of water.

Make 1-2 applications of BLUSH® 2X Plant Growth Regulator Solution at a rate of 0.95-3.8 L product/ha (see Dilution Guide, Table 2), to a maximum of 7.6 L product/ha per year. When environmental conditions are favourable for colouring and the apple variety is not one that has problems colouring, a rate range of 0.95-1.9 L product/ha may be used. If environmental conditions are less than favorable for colouring and/or the apple variety to be treated does not colour well then, it is recommended that the higher rate range of 1.9-3.8 L product/ha may be applied.

The first application is to be made when maturation and colouring of the fruit have begun. To help in determining the proper timing for this first application, a DA Meter (a device that reads chlorophyll levels in apple skin which can be used to determine fruit maturation for harvesting) may be used. The chlorophyll levels measured in the fruit skin by the DA meter may be used to monitor decreasing chlorophyll levels in apple fruit skin and thus assess the appropriate timing of applications of BLUSH® 2X Plant Growth Regulator Solution. DA meter readings will need to be taken throughout the block of apple trees to be treated so that the readings collected are representative of those trees. Monitoring of the fruit on those trees should begin approximately 4-6 weeks before harvest and continue until the values from those trees decrease to the levels stated for that variety in Table 1 below. Through research it has been determined that the DA Meter reading appropriate for the first application of BLUSH® 2X Plant Growth Regulator Solution can vary by variety. Varieties listed in Table 1 have been tested and representative DA Meter values indicating the timing of the first application for each variety are listed. The second application should be made at 7 to 10 days before the initial fruit harvest. Observe a minimum interval of 7 days between the final application and harvest.

Table 1 below provides target DA Meter values at which the first application of BLUSH® 2X Plant Growth Regulator Solution is to be made for individual fruit varieties which have been tested. As all climatic conditions and growing practice combinations could not be tested for each variety, the speed of the colour response and the amount of colour added following the application may vary.

Table 1. Target DA Meter Values for First Application of BLUSH® 2X Plant Growth Regulator Solution

Variety	DA Meter Reading
Honeycrisp	1.25*
Gala (Brookfield, Buckeye)	<1.40
Fuji, Pink Lady, Ambrosia	<1.30
*- DA meter readings for Honeycrisp do not have to be exactly 1.25 but must be below 1.3; more consistent results observed when application is at or close to 1.25.	

If the DA meter is not available, the timing of the first application may be estimated by using days prior to anticipated harvest. The timing of this first application should be approximately 21 days and no more than 28 days prior to the initial fruit harvest with the second application timing at 7 to 10 days before the initial fruit harvest. This method for determining the timing of the first application may result in more variability in the amount of colouring observed as the determination of the initial fruit harvest by growers may be based on factors other than the stage of fruit maturation.

Table 2 BLUSH® 2X Plant Growth Regulator Solution Dilution Guide

Spray Solution Volume	Concentration of Prohydrojasmon (Parts Per Million)				
	120	180	240	360	480
Volume of BLUSH® 2X Plant Growth Regulator in 100 L water	103 mL	154 mL	205 mL	308 ml	410 ml

BLUSH® 2X Plant Growth Regulator Solution contains 117 grams active ingredient per litre.

BLUSH® is a registered trademark of Fine Agrochemicals Ltd.

www.fine-americas.com