



# blush<sup>®</sup> 2X

Plant growth regulator solution for use on apples and grapes

**Active Ingredient:** Prohydrojasmon, propyl-3-oxo-2-pentylcyclo-pentylacetat.....10%  
**Other Ingredients:**.....90%  
**Total:** .....100%

EPA Reg. No. 62097-46-82917

EPA Est. No. indicated by first letter of batch number on this package (E) 39578-TX-001

(C) 70815-GA-001

Net Contents: 1 gallon (3.78 liters)

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• <b>DO NOT</b> induce vomiting unless told to by a poison control center or doctor.</li></ul>
IF ON SKIN:	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF IN EYES:	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>HOT LINE NUMBER</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM Pacific Standard Time. In the event of a medical emergency, call your poison control center at 1-800-222-1222.	

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION.** Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. Keep and wash PPE separately from other laundry.

#### **USER SAFETY RECOMMENDATIONS**

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

For terrestrial use: **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** contaminate water when disposing of equipment washwater or rinsate.

#### **Physical or Chemical Hazards**

**Combustible. DO NOT** use or store near heat or open flame. FOR CHEMICAL EMERGENCY: spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

**IMPORTANT:** Read the entire label before using this product.

#### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the State or tribal agency responsible for pesticide regulation. **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT** enter or allow worker entry into treated areas during the restricted entry interval of 4 hours unless wearing appropriate PPE.

PPE requirement for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil or water is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

#### **General Information**

Depending on cultivar, growing orchard conditions, and application timing, BLUSH 2X can be used to promote fruit color change in red apples and dark colored varieties of grapes.

#### **Application Directions**

##### **SHAKE BEFORE USING**

##### **APPLES (All approved states except California)**

Apply BLUSH 2X 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. For best results applications should be made in no more than 100 gal/A of water. A surfactant to improve coverage of the fruit and uptake may be used. Rates of surfactant used

must follow the label for the product. If the grower/applicator does not have experience with a surfactant in a tank mix with BLUSH 2X on apples, then a small test area should be sprayed and evaluated before applying the tank mix to a larger group of trees.

Make 1-2 applications of 13-52 fluid ounces per acre per year (see BLUSH 2X Dilution Guide). When environmental conditions are favorable for coloring and the apple variety is not one that has problems coloring, a rate range of 13-26 fluid ounces per acre may be used. If environmental conditions are less than favorable for coloring and/or the apple variety to be treated does not color well, apply the higher rate range of 26-52 fluid ounces per acre.

Make the first application of BLUSH 2X when maturation and coloring of the fruit have begun. To help determine the proper timing for this first application, a DA meter (differences of absorbance 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. 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 can vary by variety and seasonal weather patterns including rainfall, temperature and limitations of light (density of canopy and/or extended overcast conditions). 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.

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

**Table 1. DA Meter Values for Apple Varieties Tested**

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 and 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 14-21 days and no more than 28 days prior to the initial fruit harvest with the second application timing at 7-10 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 coloring observed as determination of the initial fruit harvest by growers may be based on factors other than the stage of fruit maturation.

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

To maximize effectiveness of BLUSH 2X, applications are to be made:

- Under slow-drying conditions, e.g., early morning, late afternoon, or night, avoiding applications during the hottest part of the day.
- After fruit have entered the maturation stage and natural coloring of the apples has begun.

Applications will not be as effective if applications are made before fruit have entered the maturation stage and natural coloring of the apples has begun.

**DO NOT** apply BLUSH 2X to trees that are injured or under stress (e.g., heat, water, disease, nutrient, etc.).

**Table 2. BLUSH 2X Dilution Guide – Apples**

Parts Per Million of Prohydrojasmon	120 ppm	180 ppm	240 ppm	360 ppm	480 ppm
Fluid Ounces of BLUSH 2X Per 100 Gallons of Water	13	19.5	26	39.5	52

**TABLE AND WINE GRAPES (All approved states except California)**

Blush 2X can be used to accelerate and enhance the color development of grape berries in darker colored varieties. The degree of enhanced berry coloration will depend on cultivar, vineyard conditions, and growing region. One or more of the following benefits is often associated with treatments of Blush 2X:

- Improved fruit quality as a result of enhanced fruit color
- Earlier harvest
- Improved harvest management
- Improved pack-out yield.

In most cases color development resulting from Blush 2X application will be visible seven to ten days after application. Reduced or undesirable effects can result from any deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixes, when applying Blush 2X.

Apply Blush 2X in a sufficient amount of water to ensure uniform, thorough coverage, but not to the point of excessive run-off of the grape bunches. Product efficacy requires that all bunches, and berries within bunches, receive thorough and complete coverage. Adjust spray volumes to achieve thorough coverage based on vine size, spacing, trellis system, vine canopy, and spray equipment. For best results applications should be made in no more than 100 gal/A of water.

Best results will be achieved from applications during the cooler parts of the day or night, avoiding the hottest period of the day. To maximize product effectiveness, apply Blush 2X under slow drying conditions, e.g. early in the morning, in the evening or night. **DO NOT** make applications during the day or early evening when the fruit is still hot.

Blush 2X can enhance the color of dark colored grape cultivars that have difficulty developing color and helps increase red color of grapes grown in poor coloring areas. However, under very poor color development conditions (e.g. excessively hot day and night temperatures, heavy crop load, poor growing conditions) application of Blush 2X may not result in improved red color development.

**DO NOT** apply Blush 2X to plants or fruit under stress (e.g. heat, water, disease, insect and nutrient). Injured or stressed plants or fruit will show a reduced response to Blush 2X. **DO NOT** overhead irrigate treated plants for at least 6 hours following application of Blush 2X. **DO NOT** apply Blush 2X if rain is expected within 6 hours of application. The proper application timing of Blush 2X is important to product performance. When applying Blush 2X, deviations from the label directions in the rates, timings, water volumes, or the use of untested spray mixes, may produce undesired results.

**Application Directions:** Blush 2X can be applied as either single application 3-4 weeks before anticipated harvest or a split application starting 3-4 weeks before anticipated harvest followed by a second application 7-10 days after the first application. The recommended rate for single application is 66-99 fl.oz./acre at 3-4 weeks prior to harvest (~16 brix). The rate for split applications is 33-66 fl.oz./acre beginning at 3-4 weeks before expected harvest (approximate brix level of 16-18) and again 7-10 days

later (approximate brix level of  $\geq 18$  brix). Spray solution should be a sufficient volume to achieve uniform and complete coverage of the grape bunches. Multiple applications closer to harvest are expected to improve color on cultivars which have an extended period between veraison and harvest. In situations where greater color development is desired, use the highest labeled rate. To achieve best results from applications of Blush 2X **DO NOT** make applications closer than 7 days prior to harvest. Applications made closer to harvest than 7 days may result in a less color enhancement of the grapes.

The use of a NIS can enhance the effects of Blush 2X but consult your local PCA for recommended rates.

**Table 3. Blush 2X Dilution Guide – Grapes**

Parts Per Million of Prohydrojasmon	300 ppm	450 ppm	600 ppm	750 ppm	900 ppm
Fluid Ounces of BLUSH 2X Per 100 Gallons of Water	33	49	66	82	99

Blush 2X contains 117 grams of prohydrojasmon (propyl-3-oxo-2-pentylcyclo-pentylacetate) per liter.

#### **STORAGE AND DISPOSAL**

**DO NOT** contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Avoid freezing. Store in original container only. In case of leak or spill, use absorbent materials to contain liquids and dispose of as waste.

**PESTICIDE 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 this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. 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, or puncture and dispose of in a sanitary landfill, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### **WARRANTY DISCLAIMER AND LIMITATION OF LIABILITY**

Fine Agrochemicals Limited ("FINE") warrants that this Product conforms to the specifications on this label. To the extent consistent with applicable law, FINE makes no other warranties and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for a particular purpose. No agent of FINE or any other person is authorized to make any representation or warranty beyond those contained herein.

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, the manner of application or other factors, all of which are beyond the control of FINE or the seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

To the extent consistent with applicable law: 1) FINE disclaims any liability whatsoever for special, incidental, or consequential damages resulting from the handling or use of this Product and 2) FINE's liability under this label shall be limited to the amount of the purchase price or, at the election of FINE, the free replacement of the Product.

Produced by:  
Fine Americas, Inc.  
1850 Mt. Diablo Blvd., Suite 670  
Walnut Creek, CA 94596  
Tel: 1-888-474-3463  
[www.fine-americas.com](http://www.fine-americas.com)

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