



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460**

**OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION**

January 6, 2021

Jolanta Ozatalay  
Regulatory Project Manager  
Fine Agrochemicals, Inc.  
1850 Mt. Diablo Blvd #405  
Walnut Creek, CA 94596

**Subject:** Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Add the use restriction for apples in California  
Product Name: FAL 1820  
EPA Registration Number: 62097-46  
Application Date: 09/24/2020  
OPP Submission Number: 1057715  
Case Number: 00144301

Dear Jolanta Ozatalay:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration

Page 2 of 2

EPA Reg. No. 62097-46

OPP Submission No. 1057715

Case No. 00144301

process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Susannah Powell or via email at [powell.susannah@epa.gov](mailto:powell.susannah@epa.gov).

Sincerely,



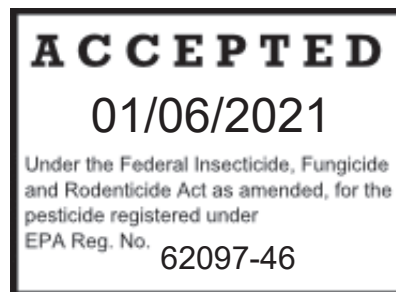
Andrew Bryceland, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

# FAL 1820

ABN: Blush 10 EC

Plant growth regulator solution for use on apples and grapes

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



**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

EPA Reg. No. 62097-46

EPA Est. No.

Net Contents:  
Batch No.

<b>FIRST AID</b>	
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>• Do not 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. You may also contact 1-800-222-1222, 24 hours a day, 7 days a week for emergency medical treatment information.	

## 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, FAL 1820 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 FAL 1820 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 FAL 1820 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 FAL 1820 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 FAL 1820 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 FAL 1820. 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 FAL 1820 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 FAL 1820 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 FAL 1820 depends on crop variety, stage of fruit maturation and environmental conditions (e.g., temperature, light exposure, etc.). FAL 1820 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 FAL 1820 may not result in significant additional red color.

To maximize effectiveness of FAL 1820, 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 FAL 1820 to trees that are injured or under stress (e.g., heat, water, disease, nutrient, etc.).

**Table 2. FAL 1820 –Dilution Guide - Apples**

<b>Parts Per Million of Prohydrojasmon</b>	120 ppm	180 ppm	240 ppm	360 ppm	480 ppm
<b>Fluid Ounces of FAL 1820 Per 100 Gallons of Water</b>	13	19.5	26	39.5	52

**GRAPES**

FAL 1820 will 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 FAL 1820:

- 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 FAL 1820 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 FAL 1820.

Apply FAL 1820 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 FAL 1820 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.

FAL 1820 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 FAL 1820 may not result in improved red color development.

Do not apply FAL 1820 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 FAL 1820. Do not overhead irrigate treated plants for at least 6 hours following application of FAL 1820. Do not apply FAL 1820 if rain is expected within 6 hours of application. The proper application timing of FAL 1820 is important to product performance. When applying FAL 1820, deviations from the label directions in the rates, timings, water volumes, or the use of untested spray mixes, may produce undesired results.

**Application Directions:** FAL 1820 can be applied as either single application 4 weeks before anticipated harvest or a split application starting 3 weeks before anticipated harvest. 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 16.5-18) 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 FAL-1820 do not make applications closer than 7 days prior to harvest FAL 1820.

The use of a NIS can enhance the effects of FAL 1820 but consult your local PCA for recommend rates.

**Table 3. FAL 1820 –Dilution Guide - Grapes**

<b>Parts Per Million of Prohydrojasmon</b>	300 ppm	450 ppm	600 ppm	750 ppm	900 ppm
<b>Fluid Ounces of FAL 1820 Per 100 Gallons of Water</b>	33	49	66	82	99

FAL 1820 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:** *[for container sizes of 5 gallons and less]* 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.

*[for container sizes greater than 5 gallons]* 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. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. 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 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.

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