

# KIMZALL®



## Plant Growth Regulator

ACTIVE INGREDIENT	BY WEIGHT
Forchlorfenuron.....	00.80 %
OTHER INGREDIENTS .....	99.20 %
TOTAL .....	100.00 %

*This package contains 8 grams active ingredient.*

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

FIRST AID	
<b>If in eyes:</b>	<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>If swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have a person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If on skin or clothing:</b>	<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>
NOTES: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In the event of a medical emergency, you may also contact CHEMTREC at 1-800-424-9300.	

See inside booklet for additional Precautionary Statements and complete Directions for Use.

EPA REG. NO. 71049-4

EPA EST. NO. 48498-CA-001

MANUFACTURED for:

**KIM-C1, LLC**

1300 West Shaw Avenue, Suite 1B  
Fresno, CA 93711

**NET CONTENTS: One Quart (8 grams active ingredient)**

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION** - Causes moderate eye irritation. Harmful if absorbed through skin or swallowed. Avoid contact with eyes, skin or clothing. Wear long sleeved shirt, long pants, shoes plus socks, chemical resistant gloves, and goggles, safety shield or glasses. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

#### **Personal Protective Equipment (PPE)**

#### **APPLICATORS AND OTHER HANDLERS MUST WEAR:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate  $\geq 14$  mils, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, or polyvinyl chloride (PVC)  $\geq 14$  mils, Viton  $\geq 14$  mils
- Shoes plus socks
- Protective eyewear, such as goggles, safety shield, or safety glasses.

#### **User Safety Requirements**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **USER SAFETY RECOMMENDATIONS:**

##### **Users should:**

- Wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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**

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 cleaning equipment or disposing of equipment washwater or rinsate.

### **STORAGE AND DISPOSAL:**

Do not contaminate water, food, or feed by storage or disposal. Keep pesticide in original container.

**PESTICIDE STORAGE:** Always store pesticides in the original container, in a cool, dry secure area out of the reach of children and animals.

**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:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after equipment emptying. Triple rinse as follows: Empty the remaining contents into application or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 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.

### **DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 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). 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 (REI) of 12 hours.

PPE required 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:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate  $\geq$  14 mils, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, or polyvinyl chloride (PVC)  $\geq$  14 mils, Viton  $\geq$  14 mils
- Shoes plus socks
- Protective eyewear, such as goggles, safety shield, or safety glasses.

## PRODUCT INFORMATION

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

This KIMZALL Plant Growth Regulator package contains 8 grams of N-(2-chloro-4-pyridinyl)-N'-phenyl urea, or forchlorfenuron. Each fluid ounce (fl. oz.) KIMZALL Plant Growth Regulator contains 0.25 grams of the active ingredient (a.i.) forchlorfenuron. Thus, 4 fluid ounces equals one gram of forchlorfenuron.

KIMZALL Plant Growth Regulator is an extremely potent plant growth regulator (PGR) that has been shown to improve the fruit size and fruit set of blueberries, grapes and kiwi. However, excessive rates of KIMZALL Plant Growth Regulator can result in undesirable results. For specific effects and benefits, see the Use Directions by Crop section.

- Product efficacy requires thorough coverage of the flowers and/or fruit. Uniform spray coverage is essential to achieve the desired results.
- For best results, apply KIMZALL Plant Growth Regulator under slow drying conditions, e.g. early in the morning, late in the afternoon, or at night, in order to ensure adequate uptake.
- For best results, the water pH should be close to neutral, and always below 8.5.
- For best performance, use adjuvants of a non-ionic nature, such as Latron B1956, 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.

Consult your local KIM-C1 agricultural representative for specific information on the best use suggestions for your particular crop.

**Application Restrictions:**

- DO NOT apply KIMZALL Plant Growth Regulator to plants under stress. If plants under stress are treated, the effect may be reduced.
- DO NOT use overhead irrigation until sprays of KIMZALL Plant Growth Regulator have dried completely.
- DO NOT apply KIMZALL Plant Growth Regulator if rain is expected before sprays have dried completely.
- DO NOT apply this product through any type of irrigation system or by aerial application.
- Tank Mixing: Except when specifically noted in the Use Directions by Crop section, DO NOT combine KIMZALL Plant Growth Regulator in tank mixes with other 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 mixtures.
- Spray Methods: Use only dilute sprays. Use kicker nozzles directed onto fruit from beneath the canopy on row and airblast sprayers. DO NOT apply by ultra-low volume (ULV) or concentrate methods.
- DO NOT treat fruit by dipping. Use of the dip method for applying KIMZALL Plant Growth Regulator may result in residues exceeding tolerance restrictions.

**USE DIRECTIONS BY CROP**

The application Spray Volume is expressed as the number of gallons of liquid applied per acre (GPA).

**BERRY AND SMALL FRUIT CROP GROUP****Blueberries**

An application of KIMZALL Plant Growth Regulator following the label directions will increase berry size. Research has shown this response in highbush blueberries grown in California and 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 KIMZALL Plant Growth Regulator applications. Harvest may be delayed if KIMZALL Plant Growth Regulator is used due to the longer time period for the larger treated berries to mature.

**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 1 for crop-specific rates and instructions.

**Table 1: Use Directions for Blueberries**

<b>Crop/Variety</b>	<b>Desired Crop Response</b>	<b>Application Rate per Acre</b>	<b>Application Rate per 100 Gallons of Spray Mix</b>	<b>Spray Volume (GPA)</b>
Highbush blueberries grown in California <sup>1</sup>	Increased berry size	12 fl. oz. product (3 grams a.i.)	12 fl. oz. product (3 grams a.i.)	100
<b>Crop Specific Instructions</b> Make one application 14 to 21 days after 50% open bloom and ensure that berries are thoroughly covered by spray. DO NOT make more than one application per year. DO NOT exceed the maximum rate of 12 fluid ounces (3 grams a.i.) per acre.				

**Notes:**

1. DO NOT use on Duke and Reka varieties in California.

**Grapes**

An application of KIMZALL Plant Growth Regulator following the label directions has been shown to increase berry set or berry size, depending upon time of application. KIMZALL Plant Growth Regulator treatment may delay grape maturity by slowing Brix and soluble solids accumulation. 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. KIMZALL Plant Growth Regulator may improve fruit quality in cold storage.
- For grapes grown for raisins, an application of KIMZALL Plant Growth Regulator 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 increase berry set. Use higher concentrations for a greater response in berry size and maturity (harvest) delay. See Table 2 for specified rates based on the desired results.

Preliminary field trials have shown that harvest delay following KIMZALL Plant Growth Regulator applications does not always occur, and may be dependent upon weather conditions as well as product rates (both KIMZALL Plant Growth Regulator and Gibberellic acid). Due to an additive effect with Gibberellic acid, berry size can be further increased when combined in a tank mix solution with Gibberellic acid using 20 to 40 ppm Gibberellic acid. The rates in Table 2 are for KIMZALL Plant Growth Regulator alone.

DO NOT exceed the maximum rate of 40 fluid ounces (10 grams a.i.) per acre and DO NOT apply this amount of product in less than 250 GPA. DO NOT make more than one application per year.

**Table 2: Use Directions for Grapes**

<b>Desired Crop Response</b>	<b>Application Rate per Acre</b>	<b>Application Rate per 100 Gallons of Spray Mix</b>	<b>Spray Volume (GPA)</b>
Intermediate size increase with minimum maturity delay	8-32 fl. oz. product (2-8 grams a.i.)	8 fl. oz. product (2 grams a.i.)	100 – 400
Intermediate size increase with intermediate maturity delay	12-36 fl. oz. product (3-9 grams a.i.)	12 fl. oz. product (3 grams a.i.)	100 – 300
Maximum size increase and maturity delay	16-40 fl. oz. product (4-10 grams a.i.)	16 fl. oz. product (4 grams a.i.)	100 – 250

**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 3 to determine the suggested berry size based on the grape variety.

**Table 3: Berry Diameter for Application**

<b>Grape Variety</b>	<b>Average Berry Diameter (mm)</b>
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) <sup>1</sup>	10 – 14
Other Seeded Varieties <sup>1</sup>	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 extension agent.

Make sure that the latest developing marketable clusters have completed shatter and final berry set by the time the application is made. Applications to flowering clusters will cause excessive fruit set and may overcome Gibberellic acid berry thinning effects. To maximize berry size, use the highest rate of KIMZALL Plant Growth Regulator in combination with Gibberellic acid (See the Gibberellic acid label for rates.). Preliminary field testing has indicated that KIMZALL Plant Growth Regulator 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. However, a combined spray application of KIMZALL Plant Growth Regulator and Gibberellic acid may delay maturity more than either product alone, particularly when highest label rates of Gibberellic acid are used.

#### **Application Timing for Seeded Grapes for Wine:**

To increase berry set, make one application during bloom. 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 increase berry set, 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 and maturity delay.

#### **Kiwifruit**

An application of KIMZALL Plant Growth Regulator following the label directions will result in increased fruit size.

#### **Application Instructions:**

Make one application of KIMZALL Plant Growth Regulator 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. See Table 4 for specified rates based on the desired results.

Make the single application when the berry length averages 30 to 45 mm. Fruit will generally be in this range at 2 to 3 weeks following bloom.

DO NOT exceed the maximum rate of 32 fl. oz. (8 grams a.i.) per acre per year and DO NOT apply this amount of product in less than 200 GPA. DO NOT make more than one application per year.



**Table 4: Use Directions for Kiwifruit**

<b>Desired Crop Response</b>	<b>Application Rate per Acre</b>	<b>Application Rate per 100 Gallons of Spray Mix</b>	<b>Spray Volume (GPA)</b>
Intermediate size increase	8-16 fl. oz. product (2-4 grams a.i.)	8 fl. oz. product (2 grams a.i.)	100 – 200
Maximum size increase	24-32 fl. oz. product (6-8 grams a.i.)	16 fl. oz. product (4 grams a.i.)	150 – 200

**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of KIM-C1, LLC. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, KIM-C1, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of KIM-C1, LLC is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, KIM-C1, LLC disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at KIM-C1, LLC's election, the replacement of product.

KIMZALL is a registered trademark of KIM-C1, LLC.

Latron B1956 is a trademark of Dow AgroSciences, LLC

EPA 01-19-2018

# KIMZALL®



## Plant Growth Regulator

ACTIVE INGREDIENT	BY WEIGHT
Forchlorfenuron.....	00.80 %
OTHER INGREDIENTS .....	99.20 %
TOTAL .....	100.00 %

*This package contains 8 grams active ingredient.*

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

FIRST AID	
<b>If in eyes:</b>	<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>If swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have a person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If on skin or clothing:</b>	<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>
NOTES: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In the event of a medical emergency, you may also contact CHEMTREC at 1-800-424-9300.	

See inside booklet for additional Precautionary Statements and complete Directions for Use.

EPA REG. NO. 71049-4

EPA EST. NO. 48498-CA-001

MANUFACTURED for:

**KIM-C1, LLC**

1300 West Shaw Avenue, Suite 1B  
Fresno, CA 93711

**NET CONTENTS: One Quart (8 grams active ingredient)**