

# KIMZALL® ME

## Plant Growth Regulator

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

*This package (1 qt.) 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 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>   |
| IMPORTANT: 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. 95961-1

EPA EST. NO. 48498-CA-001

MANUFACTURED for:  
KIM-Z, INC.

726 W. Barstow Ave., Suite 108  
Fresno, CA 93704

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

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION** - Causes moderate eye irritation. 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.

**Personal Protective Equipment (PPE)**

**APPLICATORS AND OTHER HANDLERS MUST WEAR:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, 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/PPE 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.

**NON-TARGET ORGANISM ADVISORY:** This product may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

## 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.

### **Plastic Container (5 gallons or less)**

**CONTAINER HANDLING:** Nonrefillable 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 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 if available or puncture and dispose of in a sanitary landfill, or by incineration.

## 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, 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 ME Plant Growth Regulator only as directed.

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

KIMZALL ME 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 ME 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 ME 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-Z agricultural representative for specific information on the best use suggestions for your particular crop.

#### **Application Restrictions:**

- DO NOT apply KIMZALL ME 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 ME Plant Growth Regulator have dried completely.
- DO NOT apply KIMZALL ME 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, unless otherwise stated in the Directions for Use.
- Tank Mixing: Except when specifically noted in the **Use Directions by Crop** section, DO NOT combine KIMZALL ME 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. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.
- 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 ME Plant Growth Regulator may result in residues exceeding tolerance restrictions.

**SPRAY DRIFT MANAGEMENT:** A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

## SPRAY DRIFT ADVISORIES

### SPRAY DRIFT

#### Aerial Applications:

- Do not release spray at height greater than 10 ft above the vegetative canopy unless a greater application height is necessary for pilot safety.
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use  $\frac{1}{2}$  swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

#### Ground Boom Applications:

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- For all other applications, applicators are required to use a Medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

#### Airblast Applications:

- Direct spray into the crop canopy.
- Turn off outward pointing nozzles at row ends and when spraying outer rows.

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

#### Controlling Droplet Size – Ground Boom

- Volume – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure – Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle – Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### Controlling Droplet Size – Aircraft

- Adjust Nozzles – Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

### **BOOM HEIGHT – Ground Boom**

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

### **RELEASE HEIGHT - Aircraft**

Higher release heights increase the potential for spray drift. When applying aurally to crops, do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.

### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

### **WIND**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

## **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 ME Plant Growth Regulator following the label directions will increase berry size. Research has shown this response in highbush blueberries grown in California. 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 ME Plant Growth Regulator applications. Harvest may be delayed if KIMZALL ME 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**

| Crop/Variety                             | Desired Crop Response | Application Rate per Acre         | Application Rate per 100 Gallons of Spray Mix | Spray Volume (GPA) | Crop Specific Instructions   |
|--|-----------------------|-----------------------------------|---|--------------------|--|
| Highbush blueberries grown in California | Increased berry size  | 12 fl. oz. product (3 grams a.i.) | 12 fl. oz. product (3 grams a.i.)             | 100                | 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. DO NOT use on Duke and Reka varieties in California. |

**Grapes**

An application of KIMZALL ME Plant Growth Regulator following the label directions has been shown to increase berry set or berry size, depending upon time of application. KIMZALL ME 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 ME Plant Growth Regulator may improve fruit quality in cold storage.
- For grapes grown for raisins, an application of KIMZALL ME 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 ME Plant Growth Regulator applications does not always occur and may be dependent upon weather conditions as well as product rates (both KIMZALL ME 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 (see the Gibberellic acid label of rates). The rates in **Table 2** are for KIMZALL ME 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**

| Desired Crop Response                                       | Application Rate per Acre               | Application Rate per 100 Gallons of Spray Mix | Spray Volume (GPA) |
|---|---|---|--------------------|
| 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**

| 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) | 10 – 14                     |
| Other Seeded Varieties                                    | 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 ME Plant Growth Regulator in combination with Gibberellic acid (See the Gibberellic acid label for rates.). Preliminary field testing has indicated that KIMZALL ME 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 ME 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 ME Plant Growth Regulator following the label directions will result in increased fruit size.

**Application Instructions:**

Make one application of KIMZALL ME 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**

| Desired Crop Response      | Application Rate per Acre              | Application Rate per 100 Gallons of Spray Mix | Spray Volume (GPA) |
|----------------------------|--|---|--------------------|
| 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-Z, INC. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, KIM-Z, INC. 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-Z, INC. 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-Z, INC. 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-Z, INC.'s election, the replacement of product.

Latron B1956 is a trademark of J.R. Simplot Company Corporation.

EPA 08/13/21

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