



U.S. ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDE PROGRAMS  
120 Pennsylvania Ave., N.W.  
Washington, DC 20460-0001

EPA Reg. Number  
71049-1

Date of Issuance  
FEB 2 2005

Term of Issuance  
Conditional

Name of Pesticide Product  
KT-30 Plant Growth Regulator

NOTICE OF PESTICIDE  
 Registration  
 Reregistration  
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Siemer and Associates  
Regulatory Agent for  
KIM-C1, LLC  
4672 W. Jennifer, Suite 103  
Fresno, CA 93722  
ATTN: S.R. Siemer, Ph.D.

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby reregistered under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or approval of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec.3(c)(5) when the Agency requires all registrants of similar products to submit such data,; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the changes to the labeling that are listed below before you release the product for shipment:
  - a. Add the phrase "EPA registration No. 71049-1" to your label before you release the product for shipment.

Signature of Approving Official:

Date:

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Olga Odiott  
Acting, Product Manager (22)

FEB - 2 2005

- b. In the Personal Protective Equipment Section add (PPE) after the heading.
- c. On page 2, under the heading Applicators and other handlers must wear...delete "waterproof" and under Environmental Hazards, delete "for terrestrial uses."
- d. In the Storage and Disposal section, the subheading "Storage" should read "Pesticide Storage." Move the statement "Do not contaminate water, food, or feed by .....Keep pesticide.....container, directly after heading Storage and Disposal.
- e. On page 4 under General Directions for Use, in the third paragraph, delete "several crops"and change to "grapes and kiwi."
- f. On page 5, delete the sentence that reads "Consult your local Valent agricultural representative for specific information on the best use recommendations for your particular crop."
- g. The "WARRANTY and DISCLAIMER" section contains an overly broad statement concerning immunity from liability, as well as a purported buyer agreement to assume risk. The Agency considers that these statements may be misleading, and may constitute misbranding under the Federal Insecticide, Fungicide, and Rodenticide Act. The company therefore, might want to consider qualifying this portion of this section by adding a leading qualifier, such as "To the extent allowable under State law..."

3. Series Subgroup B (Physical/Chemical Properties) data were acceptable and satisfy requirements of 40 CFR 158.190 except for Storage Stability (Guideline 830.6317) and Corrosion Characteristics (Guideline 830.6320) which are required for an end-use product and must be provided upon their completion.

Submit one copy of your final printed labels before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release of shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

If you have any questions regarding this action, please contact Rose Kearns of my team at (703) 305-5611.

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# KT-30™ Plant Growth Regulator

ACTIVE INGREDIENT	BY WEIGHT
CPPU (N-(2-chloro-4-pyridinyl)-N-phenyl urea).....	98.00%
OTHER INGREDIENTS.....	2.00%
<b>TOTAL.....</b>	<b>100.00%</b>

*This package contains 8 grams active ingredient.*

**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 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>
If inhaled:	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further 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>
NOTES:	<ul style="list-style-type: none"> <li>• Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</li> <li>• In the event of a medical emergency, you may also contact the National Pesticide Telecommunications Network at 1-800-858-7378.</li> </ul>

EPA REG. NO. 71049-EUP-E

EPA EST. NO. 33762-IA-001

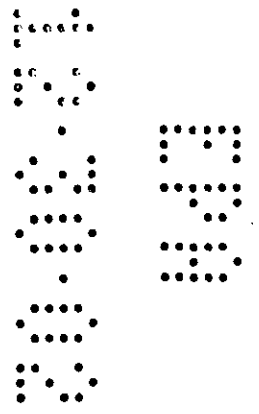
**ACCEPTED**  
with **COMMENTS**  
In EPA Letter Dated:

*Feb. 2, 2005*

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.

**MANUFACTURED for:**  
KIM-CI, LLC  
5151 N. Palm, Ste. 620  
Fresno, CA 93704

**NET CONTENTS: 0.018 lbs. (8 grams active ingredient)**



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

**CAUTION** - Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breath vapors or spray mist.

### **Personal Protective Equipment**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

**APPLICATORS AND OTHER HANDLERS MUST WEAR:** coveralls over long-sleeved shirt and long pants, chemical-resistant waterproof gloves such as barrier laminate or viton, chemical-resistant footwear, plus socks, protective eyewear, and chemical-resistant headwear.

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

### **USER SAFETY RECOMMENDATIONS:**

**Users should:**

- Wash hands 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**

For terrestrial uses. Do not apply directly to water, or to areas where surface water is present or to intertidal 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 washwaters.

## STORAGE AND DISPOSAL:

**STORAGE:** Keep under cool conditions.

**PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Keep pesticide in original container.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## 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:

coveralls over long-sleeved shirt and long pants;  
chemical-resistant gloves such as barrier laminate or viton;  
chemical-resistant footwear, plus socks; protective eyewear;  
chemical-resistant headwear.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

## GENERAL DIRECTIONS FOR USE

**IMPORTANT:** Before application, read all use directions thoroughly. Use KT-30 only as directed.

This KT-30 package contains 8 grams of N-(2-chloro-4-pyridinyl)-N-phenylurea, or CPPU.

KT-30 is an extremely potent plant growth regulator (PGR) that has been shown to improve the fruit size and fruit set of several crops. However, excessive rates of KT-30 can result in undesirable results. For specific effects and benefits, see the Spray Guidelines by Crop section.

- Product efficacy requires thorough coverage of the fruit. Uniform spray coverage is essential to achieve the desired results.
- For best results, apply KT-30 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.
- DO NOT apply KT-30 to plants under stress. If plants under stress are treated, the effect may be reduced.
- DO NOT use overhead irrigation for at least 2-4 hours (after the sprays have dried) following the KT-30 application.
- DO NOT apply KT-30 if rain is expected within 2-4 hours after the spray has dried.
- DO NOT apply this product through any type of irrigation system.
- Aerial application of KT-30 is prohibited.

- Use of adjuvants: Adjuvants, if used, should be of a non-ionic nature, such as Latron B1956®, and should not exceed 0.1% (v/v).
- Compatibility: Tank mixes of KT-30 with materials other than ProGibb®, Promalin®, and Accel®, or a suitable non-ionic surfactant are not recommended.
- Spray Method Restrictions: Use only dilute sprays. DO NOT apply by ULV or concentrate methods. Use drop nozzles directed onto fruit from beneath the canopy on row and airblast sprayers. In order to minimize spray drift, it is recommended that whenever possible average spray particle size be 200µ or larger.
- DO NOT treat fruit by dipping. Use of the dip method for applying KT-30 may result in residues exceeding tolerance restrictions.

Consult your local Valent Biosciences or KIM-C1 agricultural representative for specific information on the best use recommendations for your particular crop.

## **SPRAY GUIDELINES BY CROP**

### **Grapes**

#### **Seedless Grape**

An application of KT-30 has been shown to increase berry size. Increased berry size improves cluster weight, total yield and pack out. KT-30 may improve fruit quality in cold storage. KT-30 treatment may delay grape maturation, i.e. slow Brix accumulation. Color development may be delayed in colored varieties. These factors may cause a delay in harvest. The higher the rate of product applied, the greater the potential for maturity delay.

#### **Rates**

Thorough coverage of the clusters is critical to achieve the desired response. In general, the higher the concentration, the greater response for berry size and maturity (harvest) delay. A lower rate range of from 3 to 6 grams a.i. per acre can provide a berry size increase with minimal harvest delay. The higher rate range of 8 to 10 grams a.i. per acre will maximize berry size and

maximize harvest delay (see Table 1). Field trials have shown that harvest delay following KT-30 applications do not always occur, and may be dependant upon weather conditions as well as the rates of product used. DO NOT exceed the maximum rate of 10 grams a.i. per acre of KT-30 and do not apply this amount of product in less than 200 gallons per acre. DO NOT make more than one application per season.

PPM	KT-30	
	Grams a.i./A	Gallons per Acre
6	4	200
6	6	250
6	8	350
6	10	400
8	6	200
8	8	250
8	10	350
10	8	200
10	10	250

### Timing

Make a single application per season based on average berry diameter. The timing will vary by variety (See Table 2). 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 ProGibb berry thinning effects. To maximize berry size use the highest rate of KT-30 in combination with ProGibb (See the ProGibb label for rates). Field testing has shown that KT-30 and ProGibb tank mixes applied at the time of the second ProGibb “sizing” spray will result in optimum berry sizing for common varieties such as “Thompson Seedless”. However, a combined spray application of KT-30 and ProGibb may delay maturity more than either product alone, particularly when highest label rates of ProGibb are used.



**Spray Volume**

Use a volume of water between 200 and 500 gallons per acre (GPA), but do not spray past runoff. Spray volumes lower than 200 GPA may result in poor coverage and reduce the effectiveness of the application.

**Tank Mixing**

KT-30 can be applied alone, or it may also be tank mixed with ProGibb "sizing" sprays. KT-30 may also be applied in combination with a non-ionic surfactant. Other tank mix combinations with KT-30 are not recommended.

**Seeded Grape for Fresh Market**

An application of KT-30 has been shown to increase berry size. Increased berry size improves cluster weight, total yield and pack out. KT-30 may improve fruit quality in cold storage. KT-30 treatment may delay grape maturation, i.e. slow Brix accumulation. Color development may be delayed in colored varieties. These factors may cause a delay in harvest. The higher the rate of product applied, the greater the potential for maturity delay.

**Rates**

For recommended rates, see Table 1. Thorough coverage of the clusters is critical to achieve the desired response. In general the higher the concentration the greater response for berry size and delayed maturity. DO NOT exceed the maximum rate of 10 grams a.i. per acre and do not apply this amount of product in less than 200 gallons per acre. DO NOT make more than one application per season.

**Timing**

Make a single application per season based on average berry diameter. The timing will vary by variety (See Table 2). Applications to flowering clusters will cause excessive fruit set.

**Spray Volume**

Use a volume of water between 200 and 500 gallons per acre (GPA), but do not spray past runoff. Spray volumes lower than 200 GPA may result in poor coverage and reduce the effectiveness of the KT-30.

### Tank Mixing

Tank mixes of KT-30 with any materials except a suitable non-ionic surfactant (see Use of Adjuvant section) are not recommended

**Table 2- Suggested Berry Diameters for Timing KT-30 Sprays for Fresh Market Grapes**

Variety <sup>1</sup>	Avg. 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

<sup>1</sup> All varieties have not been fully tested. This includes other seedless varieties, such as Crimson, Fantasy, and Black Beauty. There would be best treated when berry diameter is between 10-14 mm. It is suggested that additional seeded varieties be treated when berry diameter is between 12-16 mm.

### Seeded Grape for Wine

One application of KT-30 has been shown to increase berry set, or berry size. KT-30 treatment may delay grape maturity and color development. These factors may cause a delay in harvest. The higher the rate of product applied, the greater the potential for maturity delay.

### Rates

Make a single application of KT-30 using 2 to 10 grams a.i. per acre, making sure that clusters are thoroughly covered with spray (see Table 1). DO NOT exceed the maximum rate of 10 grams a.i. per acre.

### Timing

Make a single application per season. To increase berry set, apply KT-30 during bloom. To increase berry size, apply KT-30 14 to 21 days after the completion of berry shatter. The timing may vary by variety. All varieties have not been fully tested.

### Spray Volume

Use a volume of 200 gallons per acre (GPA). Spray volumes lower than 200 GPA may result in poor coverage and reduce the effectiveness of the application.

**Tank Mixing**

Tank mixes of KT-30 with any materials except a suitable non-ionic surfactant (see Use of Adjuvant section) are not recommended.

**Grapes for Raisins**

An application of KT-30 following the label directions increases fruit set and/or berry size, and may decrease drying ratio. KT-30 application may delay maturity, which may cause a delay in harvest. The higher the rate of product applied, the greater the potential for delayed maturity.

**Rates**

Make a single application of KT-30 using 2 to 10 grams a.i. per acre, making sure that clusters are thoroughly covered. In general, use lower rates to increase berry set (2 to 3 gr a.i. per 100 GPA). Use higher rates (6 to 10 gr a.i.) to increase berry size. The higher the rate, the greater the response for berry size and maturity delay. DO NOT exceed the maximum rate of 10 gr a.i. per acre. DO NOT make more than one application per season.

**Timing**

To increase berry set, make a single application at bloom. To increase berry size, make a single application when the berry diameter averages 8 to 10 mm.

**Spray Volume**

Use a volume of 200 gallons per acre (GPA). Spray volumes lower than 200 GPA may result in poor coverage and reduce the effectiveness of the application.

**Tank Mixing**

Tank mixes of KT-30 with any materials except a suitable non-ionic surfactant (see Use of Adjuvant section) are not recommended.

**Additional Varieties for Raisins**

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.

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## **Kiwifruit**

An application of KT-30 following the label directions will result in increased fruit size.

### **Rates**

For intermediate fruit size enhancement use lower rates and use higher rates to maximize fruit size. Use 2 to 8 grams a.i. per acre. See Table 1. Make sure that fruit are thoroughly covered. DO NOT exceed the maximum rate of 8 grams a.i. per acre. DO NOT make more than one application per season.

### **Timing**

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

### **Spray Volume**

Use a volume of 200 gallons per acre (GPA). Spray volumes lower than 200 GPA may result in poor coverage and reduce the effectiveness of the application.

### **Tank Mixing**

Tank mixes of KT-30 with any materials except a suitable non-ionic surfactant (see Use of Adjuvant section) are not recommended.

### **Warranty/Liability**

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

Latron B1956 is a trademark of Rohm and Haas  
ProGibb, Promalin, and Accel are all trademarks of Valent BioSciences Corp.