



Plant growth regulator for use on grass grown for seed\* and peanuts\*.

\*Not for use in California.

**Active Ingredient:** Prohexadione-calcium\*\*

[calcium 3-oxido-5-oxo-4-propionylcyclohex-3-enecarboxylate] .....25.94%

**Other Ingredients:** .....74.06%

**Total:** .....100.0%

\*\*Equivalent to 2.29 lbs. of active ingredient per gallon of product

**KEEP OUT OF REACH OF CHILDREN  
WARNING  
(Aviso)**

See product label for First Aid, Precautionary, Storage and Disposal Statements, and Directions for Use

EPA Reg. No. 62097-61-82917

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)

<b>FIRST AID</b>	
<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>
<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 by a poison control center</li> </ul>

	<p>or doctor.</p> <ul style="list-style-type: none"> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p>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.</p>	

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

**WARNING.** Causes substantial but temporary eye injury. Causes skin irritation. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing. 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. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Coveralls worn over short-sleeved shirt and short pants.
- Socks and chemical-resistant footwear.
- Chemical-resistant gloves made of out of Polyethylene, Polyvinyl Chloride (PVC) >14 mils, Barrier Laminate, Butyl Rubber >14 mils, Nitrile Rubber >14 mils, Neoprene Rubber >14 mils, Natural Rubber >14 mils, Viton >14 mil.
- Wear appropriate protective eyewear such as goggles, face shield, or safety glasses.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

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

**USER SAFETY RECOMMENDATIONS**

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- 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.

### **ENGINEERING CONTROLS STATEMENT**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### **ENVIRONMENTAL HAZARDS**

Do not apply directly to water, 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 wash waters or rinsate.

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### **DIRECTIONS FOR USE**

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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 requirement specific to your state or tribe, consult the state or tribal 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 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 the label about personal protective equipment (PPE) and restricted entry intervals. The requirements in this box only apply to uses of this product covered by the Worker Protection Standard.

Do not enter or allow entry into treated areas during the restricted entry interval level (REI) of 12 hours unless wearing appropriate PPE.

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, plants, soil or water is:

- Coveralls
- Shoes plus socks
- Chemical resistant gloves made of any waterproof material

KUDOS OD is a plant growth regulator which inhibits the biosynthesis of gibberellins. Inhibition of gibberellin reduces vegetative growth.

- Thorough spray coverage of plant foliage is necessary for good uptake.
- The performance of KUDOS OD can be affected by many factors including: crop growth stage, environmental conditions and crop vigor due to moisture availability, fertility level, etc.
- Correct timing of application is critical. Apply KUDOS OD to actively growing trees at rates and stages of growth listed in this label.
- Add one pound of a spray grade ammonium sulfate (AMS) for every pound of KUDOS OD.
- Use a standard spray adjuvant, preferably a non-ionic surfactant, to improve leaf coverage and performance consistency. Follow the manufacturer's rate directions.
- Rainfall within 1 hour of application on grass grown for seed and within 8 hours for apples, peanuts, and sweet cherries may reduce the efficacy of KUDOS OD.
- Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying KUDOS OD.

### **Restrictions**

- **DO NOT** apply to crops under stress due to lack of moisture, hail damage, flooding, mechanical injury, or injury caused by other prior products, i.e., phytotoxicity.
- **DO NOT** apply this product through any type of irrigation system, except for watercress use.
- This product cannot be used to formulate or reformulate any other pesticide product.

### **Tank Mixing Information:**

Testing has shown that KUDOS OD when used in combination with AMS and a wide range of adjuvants does not result in phytotoxicity. KUDOS OD has shown to be compatible with many commonly used fungicides and insecticides. However, not all crop varieties and cultivars have been tested with possible tank-mix combinations. Since local conditions can influence crop sensitivity, test any tank-mix combination on a small portion of the crop to be treated to ensure crop safety. 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.

### **Mixing Order:**

1. Fill spray tank half full with clean water and begin agitation.
2. Place any product contained in a water-soluble PVA bag into the tank and make sure the bag(s) have fully dissolved before continuing.
3. Add Ammonium Sulfate (AMS).
4. Add KUDOS OD.
5. Add any water dispersible formulations, i.e., water dispersible granules, wettable powders, suspension concentrates, etc.
6. Add adjuvants.
7. Add any water soluble products, i.e., soluble powders, soluble liquids, emulsifiable concentrates, etc.

8. Add remaining quantity of water and continue agitation through application.

Maintain constant agitation during application.

**Note:** If calcium or boron are tank mixed with KUDOS OD, the resulting growth control may be less than favorable.

### **Mandatory Spray Drift**

#### Aerial Applications

- Do not release spray at a height greater than 10 ft above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For all applications, applicators are required to use a Coarse or coarser droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ 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 Applications

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- For all applications, applicators are required to use a Coarse 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.

### **Spray Drift Advisories**

- 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 specified 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 manufacturer's specifications 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 must remain level with the crop and have minimal bounce.
- RELEASE HEIGHT - Aircraft  
Higher release heights increase the potential for spray drift. When applying aerially to crops, do not release spray at a height greater than 10 feet 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.
- ORCHARD AIRBLAST APPLICATIONS  
Sprays should be directed into the canopy. User should turn off outward pointing nozzles at row ends and when spraying outer row.
- 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.

### **APPLICATION INSTRUCTIONS**

#### **GRASS GROWN FOR SEED (all approved states except California):**

KUDOS OD can be used as a production management tool on grass grown for seed production to suppress vegetative growth i.e. shorten internode length, resulting in a

lower potential for lodging. Reducing lodging can result in improved pollination, increased seed set and improved yields. KUDOS OD must be absorbed by foliage to be effective. Always use sufficient spray volume to thoroughly wet the leaves without runoff. The growth regulator effects of KUDOS OD do not occur by soil uptake. KUDOS OD does not affect vegetative growth the following year.

For consistent performance on grass grown for seed, add one pound of a spray grade ammonium sulfate (AMS) for every pound of KUDOS OD. Use a standard spray adjuvant, preferably a non-ionic surfactant, to improve leaf coverage and performance consistency. Follow the manufacturer's rate directions.

Refer to Table 1 for application rates and timings of KUDOS OD to reduce vegetative growth in grass grown for seed.

**Table 1. Application Rates and Timings for Vegetative Growth Control in Grass Grown for Seed.**

<b>Application Timing</b>	<b>Application Rate per Acre</b>
<b>Single application:</b> <ul style="list-style-type: none"> <li>Apply from flag leaf emergence up to early heading growth stage.</li> </ul>	14-28 fl. oz (0.25-0.50 lb. ai)
<b>Split applications:</b> <ul style="list-style-type: none"> <li>Apply from flag leaf emergence up to early heading growth stage.</li> <li>Make a second application 7-10 days later when new growth occurs.</li> </ul>	7-13.5 fl. oz (0.13-0.24 lb. ai)

**Ground Application:** Use a minimum of 10 gallons of spray solution per broadcast acre.

**Aerial Application:** Use a minimum of 10 gallons of spray solution per acre.

**Suppression of Annual Bluegrass in Washington, Oregon, Idaho and Utah:**

KUDOS OD can be used to for the suppression of annual bluegrass in grass grown for seed production. For maximum suppression, annual bluegrass must be sprayed when in the flowering stage, and must receive thorough coverage. KUDOS OD may not be effective against some annual bluegrass biotypes.

**Limitation on Grass Grown for Seed:**

- KUDOS OD is rainfast 1 hour after application.

**Restrictions on Grass Grown for Seed:**

- **DO NOT** apply more than 28 fl. oz of KUDOS OD (0.50 lb. ai) per acre per application.
- **DO NOT** apply more than a total of 28 ounces of KUDOS OD (0.50 lb. ai) per acre, per year.
- **DO NOT** retreat in less than 1 week.

- **DO NOT** make more than 2 applications of 13.5 fl. oz of KUDOS OD (0.24 lb. ai) per acre per year or more than 1 application of 28 fl. oz of KUDOS OD (0.50 lb. ai) per acre per year.
- **DO NOT** apply within 35 days before harvest.
- **DO NOT** graze livestock for 49 days following application.
- **DO NOT** cut forage or hay for livestock feed for 49 days following application.
- Plant-back/rotation restriction: If replanting or crop rotation is necessary in fields treated with KUDOS OD, **DO NOT** plant any crop other than grass grown for seed for 30 days following application.

**PEANUTS (all approved states except California):**

KUDOS OD can be used as a production management tool on peanuts to suppress vegetative growth i.e. shorten internode length, resulting in better harvest efficiency. KUDOS OD does not affect vegetative growth the year following application.

For consistent performance on peanuts, add a spray grade ammonium sulfate (AMS) to the spray tank at a rate of one pound per acre. Use a standard spray adjuvant, preferably a non-ionic surfactant, to improve leaf coverage and performance consistency. If KUDOS OD is being applied with or without a tank-mix partner that requires the use of a non-phytotoxic crop oil concentrate (COC) then, a non-phytotoxic COC can be used in place of a non-ionic surfactant.

NOTE: In trial work some leaf injury has been observed in certain tank mixes that include a Crop Oil Concentrate (COC) adjuvant. Always follow the adjuvants manufacturer's label for rate and use directions.

Apply KUDOS OD to actively growing peanut plants according to the rates directed in Table 2. Initially apply 3.6 to 7.25 fluid ounces (0.064 to 0.13 lbs. ai) per acre when greater than 50% of the peanut stems are touching the row middle i.e.85% row closure. Make a second application 14-21 days after 1<sup>st</sup> application. KUDOS OD application timing for peanut in a twin row configuration is when greater than 80% of lateral branches are touching (99% plus row closure).

KUDOS OD rates of 3.6 to 5.4 fl. oz (0.064 to 0.097 lb. ai) per acre may be used for "runner type" peanut varieties with less aggressive growth habits and/or when conditions do not favor rank growth for extended periods of time. For "runner type" peanut varieties that have aggressive/rank growth habits and/or conditions favor rank growth, the higher rate range of 5.4 to 7.25 fl. oz (0.097 to 0.13 lb. ai) per acre may be used. For "Virginia type" peanut varieties higher rates are advised with the highest rate specified when conditions favor rank plant growth.

Under conditions that are favorable to extremely rank growth and/or when weather patterns extend favorable growing conditions, a third or fourth application may be required to control excessive vegetative growth.



Growing conditions, production/fertility program and peanut variety must be considered when determining KUDOS OD rates and number of applications needed in each growing season. Proper application timing and product rates are critical for successful vegetative growth control in peanuts. Consult your local extension agent or consultant for advice on KUDOS OD rates and number of applications needed for controlling excessive vegetative growth for peanut variety and production system being used.

Crops under stress due to lack of moisture, hail damage, flooding, mechanical injury, etc. will show little response to KUDOS OD.

**Table 2. Application Rates and Timings for Vegetative Growth Control in Peanuts.**

<b>Application Timing</b>	<b>Application Rate per Acre</b>
First application: <ul style="list-style-type: none"> <li>Apply when greater than 50% of lateral branches are touching in the row middles (90% plus row closure). Typically, 60-65 Days after planting.</li> </ul>	3.6–7.25 fl. oz (0.064-0.13 lb. ai)
Second application: <ul style="list-style-type: none"> <li>Make a second application at 14-21 days after the 1<sup>st</sup> application.</li> </ul>	3.6-7.25 fl. oz (0.064-0.13 lb. ai)
Additional applications: <ul style="list-style-type: none"> <li>When conditions favor extended or extremely rank growth, additional applications may be made to control growth. *</li> </ul>	3.6-7.25 fl. oz (0.064-0.13 lb. ai)

\* The total product applied per year may not exceed 21 fl. oz (0.38 lbs. ai)/acre. The last application cannot be made within 25 days before peanut harvest.

**Ground Application:** Use a minimum of 20 gallons of spray solution per broadcast acre.

**Aerial Application (all approved states except California):** Apply KUDOS OD in a minimum of 10 gallons of spray solution per broadcast acre. Under conditions where field soil is saturated, and use of ground application equipment is not possible, aerial applications may be used. Aerial applications may not provide the same level of vegetative control as observed with ground applications.

**Limitation on Peanuts:**

- KUDOS OD is rainfast 8 hours after application.

**Restrictions on Peanuts:**

- **DO NOT** apply more than 7.25 fl. oz of KUDOS OD per acre (0.13 lb. ai) per application.

- **DO NOT** apply more than a total of 21 fl. oz of KUDOS OD (0.38 lb. ai) per acre per year.
- **DO NOT** retreat in less than 1 week.
- **DO NOT** make more than 2 applications of 7.25 fl. oz/A (0.13 lb. ai/A) of KUDOS OD in less than 6 weeks.
- Following the initial application of 7.25 fl. oz per acre (0.13 lb. ai), **DO NOT** make more than 2 subsequent applications of 7.25 fl. oz of KUDOS OD per acre per year (0.13 lb. ai). More applications can be made per year of lower rates as long as the total amount of KUDOS OD applied does not exceed 21 fl. oz (0.38 lb. ai).
- **DO NOT** treat within 25 days before harvest.
- **DO NOT** graze or feed livestock treated crops.
- **DO NOT** apply to crops under stress due to lack of moisture, hail damage, flooding, herbicide injury, or mechanical injury as reduced activity may result.
- **DO NOT** apply to crops that show injury (leaf phytotoxicity or plant stunting) produced by any other prior product applications because this injury can be enhanced or prolonged.
- Plant back/rotation restriction: If replanting or crop rotation is necessary in fields treated with KUDOS OD, **DO NOT** plant any crop other than peanuts for 30 days following the last application.

## **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container only. After partial use, close the container tightly. Store in a secure place that is cool and dry. Use spray and stock solutions within 24 hours. Immediate use is required if another component is added to the spray solution.

**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. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Container Handling:** 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 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 if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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Fine Americas Inc.  
1850 Mt Diablo Blvd,  
Suite No. 670,  
Walnut Creek,  
CA 94596, USA

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