

This information is for promotional purposes only. Space considerations may require information to be omitted.
 Always refer to the actual package for complete label verbiage. This product may not yet be available or approved for sale or use in your area.



ANDARA™

PGR



Contains prohexadione calcium, the active ingredient used in Apogee®.

For use in grass grown for seed

ACTIVE INGREDIENT:	(% by weight)
prohexadione calcium: [calcium 3-oxido-5-oxo-4-propionylcyclohex-3-enecarboxylate]	27.5%
OTHER INGREDIENTS:	72.5%
TOTAL	100.0%

Equivalent to 0.275 pound of active ingredient per pound of product.

EPA Reg. No.: 91234-233

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
 (If you do not understand the label, find someone to explain it to you in detail.)

See below for additional Precautionary Statements.

FIRST AID	
If in eyes:	<ul style="list-style-type: none"> ▪ Hold eye open and rinse slowly and gently with water for 15-20 minutes. ▪ Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. ▪ Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> ▪ Take off contaminated clothing. ▪ Rinse skin immediately with plenty of water for 15-20 minutes. ▪ Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information.	

For Chemical Emergency:
Spill, Leak, Fire, Exposure, or Accident,
Call CHEMTREC Day or Night
 Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

Andara™ PGR is not manufactured, or distributed by BASF Corporation, seller of Apogee® plant growth regulator.



Manufactured for:
Atticus, LLC
 940 NW Cary Parkway, Suite 200
 Cary, NC 27513

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or 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.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
- Shoes plus socks

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

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.

User Safety Recommendations

Users should:

- 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, 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 washwaters or rinsate.

Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

Physical and Chemical Hazards

DO NOT mix or allow coming in contact with oxidizing agents. Hazardous chemical reaction may occur.

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

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.

Unless otherwise directed in supplemental labeling, all applicable directions, restrictions, precautions, and **Limitation of Warranty and Liability** are to be followed. This labeling must be in the user's possession during application.

Steps to be taken in case material is released or spilled:

- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing and wash affected skin areas with soap and water.
- Wash clothing before reuse.
- Keep the spill out of all sewers and open bodies of water.

PRODUCT INFORMATION

Andara PGR is a unique production management tool for controlling vegetative growth in grass grown for seed.

Mixing Instructions

See also: Crop-specific **Additives and Tank Mixing Information**.

If tank mixes or additives are used, follow the rate restrictions, label directions, and precautions on all labels. Always follow the most restrictive label. Refer to the **Additives and Tank Mixing Information** crop-specific sections for additional instructions and precautions.

Physical incompatibility can result from mixing **Andara PGR** with other pesticides. Test compatibility of all products before adding them to the spray tank (see **Compatibility (Jar) Test**).

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.



Compatibility (Jar) Test

- Before mixing a new combination of products or additives in the spray tank, perform a compatibility test. Begin with a quart-sized jar. Add products in the same order as the Mixing Order section. Start with 3.5 cups of water from the intended source at the source temperature. For each dry product, add 2 tsp per pound of product per acre. For each liquid product, add 1 tsp per pint of product per acre.
- Cap the jar and invert 10 cycles between component additions.
- When the components have all been added to the jar, let the solution stand for 15 minutes.
- Evaluate the solution for uniformity and stability. The spray solution must not have free oil on the surface, fine particles that precipitate to the bottom or thick (clabbered) texture. **DO NOT** use any spray solution that could clog spray nozzles.

Mixing Order

Maintain agitation throughout mixing.

1. **Water** - Fill tank 1/2 to 3/4 full with clean water and start agitation.
2. **Products in PVA bags** - Place any product contained in water-soluble PVA bags into the mixing tank. Wait until bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
3. **Water-soluble additives** - including dry and liquid fertilizer, such as ammonium sulfate or urea ammonium.
4. **Water dispersible products** - including dry flowables such as **Andara PGR**, dry wettable granules, suspension concentrates, or suspo-emulsions.
5. **Water soluble products**
6. **Emulsifiable concentrates** - including oil concentrates or methylated seed oil.
7. **Remaining quantity of water**

Cleaning Spray Equipment

Spray equipment must be cleaned thoroughly before and after applying this product using a strong detergent or commercial sprayer cleaner, particularly if a product with potential to injure crops was used prior to **Andara PGR**.

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 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 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 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 manufacturer's 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 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.

Grass Grown for Seed* *NOT FOR USE IN CALIFORNIA

Andara PGR is a production management tool for producers of grass grown for seed including perennial ryegrass, Kentucky bluegrass, fine, and tall fescue. **Andara PGR** reduces vegetative growth (shorter internode length), which reduces the potential for lodging. Reduced lodging can lead to improved pollination, increased seed set, and improved harvest efficiency.

Andara PGR does not affect vegetative growth the following year.

Mode of Action

Andara PGR acts within the grass plant to inhibit the biosynthesis of gibberellin resulting in a decrease in cell elongation and a reduction in vegetative growth. The performance of **Andara PGR** can be affected by many factors including: crop growth stage, environmental conditions, plant vigor, moisture availability, fertility level, and cultural practices that affect crop vigor.

Application Instructions

Apply **Andara PGR** to actively growing grass plants according to application rates and timing instructions in **Table 5**.

Spray Coverage

Andara PGR is a systemic growth regulator and must be absorbed into the leaves to be effective. Use enough volume of spray to thoroughly wet the leaves without runoff. **Andara PGR** is rainfast within 1 hour of application. **Andara PGR** growth regulator effects **DO NOT** occur by soil uptake.

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

In the flowering stage, thoroughly spray annual bluegrass with **Andara PGR**. Less suppression will result if the annual bluegrass has not reached the flowering stage when sprayed. Some annual bluegrass biotypes may not be affected by the use of **Andara PGR**. Perennial biotypes of annual bluegrass are not affected by the use of **Andara PGR**.

Vegetative Growth Suppression in Kentucky Bluegrass

Make a single application per year of 14 to 29 ozs/A (0.241 – 0.498 lb ai) of **Andara PGR** from flag leaf emergence up to early heading stage of growth (see **Table 5**).

Aerial and Broadcast Ground Application Water volume. Use a minimum of 10 gallons of spray solution per broadcast acre.

Additives Adjuvant

For consistent performance on grass grown for seed, add a commercial spray adjuvant, preferably a non-ionic surfactant.

Nitrogen Source

A nitrogen source, such as one quart per acre of 32% urea ammonium nitrate (UAN) or one pound per acre of ammonium sulfate (AMS), can also improve performance. Use high quality spray grade AMS to avoid plugging nozzles.

Table 5. Application Rates for Vegetative Growth Control in Grass Grown for Seed

Application Timing	Andara PGR Rate (ozs/A)
Single application ▪ Apply from flag leaf emergence up to early heading growth stage.	14 to 29 (0.241 – 0.498 lb ai)
Split applications ▪ Apply from flag leaf emergence up to early heading stage of growth. ▪ Make a second application 7 to 10 days later when new growth occurs.	7 to 14 (0.12 – 0.241 lb ai)

Precaution

- **Rainfast period** - **Andara PGR** is rainfast within 1 hour of application.

Restrictions

- **DO NOT** apply more than 29 ozs/A (0.5 lbs ai) of **Andara PGR** per application.
- **DO NOT** apply more than 29 ozs/A (0.5 lbs ai) of **Andara PGR** per year.
- **DO NOT** make more than 2 applications of **Andara PGR** when using reduced application rates.
- **Retreatment Interval:** 7 days
- **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.
- **DO NOT** apply this product through any type of irrigation system.
- **Plantback/rotation restriction** - If replanting or crop rotation is necessary in treated fields, **DO NOT** plant any crop other than grass grown for seed for 30 days following the last **Andara PGR** application.



STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

Bag: Nonrefillable outer bag. Do not reuse or refill the outer bag. 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.

Plastic Container: 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. Fill the container ¼ 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, or by other procedures allowed by state and local authorities.

LIMITATION OF WARRANTY AND LIABILITY

IMPORTANT: READ BEFORE USE. Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following 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. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of ATTICUS, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ATTICUS, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, neither ATTICUS, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. 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, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

Andara™ PGR is a trademark of Atticus, LLC

Apogee® is a registered trademark of BASF.

20211014ap1



Manufactured for:
Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513