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.

Cryova™ PGR

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

For use in apple, grass grown for seed, peanut, pear, and sweet cherry

SPECIMEN

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:	▪ 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:	▪ 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)

Cryova™ 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 other- wise 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

Cryova PGR is a unique production management tool for controlling vegetative growth in the following crops: apple, grass grown for seed, peanut, pear, and sweet cherry.

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 **Cryova 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.

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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 **Cryova 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 **Cryova 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 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 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 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.

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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.

Apple

Cryova PGR reduces vegetative growth in apple orchards allowing a balance between canopy development and fruit production. **Cryova PGR** provides many beneficial effects in apples including: reduced need for summer and dormant pruning, improved light penetration into the tree canopy, improved color of red varieties because of better light penetration into the canopy, and reduced incidence and severity of fire blight of shoots (shoot blight). **Cryova PGR** has been associated with an increase in fruit cracking on apple varieties known to be prone to cracking (such as Empire and Stayman).

Mode of Action

Cryova PGR acts within apple trees to inhibit the biosynthesis of gibberellin, which is the natural plant hormone that regulates cell elongation. Inhibition of gibberellins results in reduced shoot growth. Vegetative growth suppression with **Cryova PGR** typically lasts for 2 to 5 weeks per application during the current growing season. **Cryova PGR** does not affect vegetative growth the following year.

Gibberellic Acids

When gibberellic acid sprays, such as **ProVide® Plant Growth Regulator**, are applied in the same season as **Cryova PGR** to reduce cracking or reduce russetting, a loss in efficacy can occur in the **Cryova PGR** and/or the gibberellin spray.

Thinning

Cryova PGR application can cause a tree to retain more fruit (refer to **Table 2** for instructions to reduce June drop). As a result, thinning programs may need adjustment.

Fire Blight of Shoots (Shoot Blight) Fire blight management is not registered for use in California on apple.

Controlling vegetative growth with **Cryova PGR** as instructed in **Table 3** will reduce the incidence and severity of fire blight infection (*Erwinia amylovora*) of shoots and leaves. **Cryova PGR** does not have direct antibiotic activity against the fire blight bacteria (*Erwinia amylovora*), but **Cryova PGR** can decrease host susceptibility. **Cryova PGR** applications are not effective for suppression of blossom blight. For maximum reduction in fire blight susceptibility, apply **Cryova PGR** at least 10 days before the occurrence of weather conditions favorable for shoot and leaf infections. **Cryova PGR** reduces the susceptibility of apple shoot tips to fire blight. Apply **Cryova PGR** as one component of a comprehensive IPM strategy for control of fire blight. This decrease in susceptibility will not become effective until about 10 days after application.

Tree Row Volume (TRV)

Using **Cryova PGR** as part of a management program significantly reduces the tree row volume. Spray guides typically specify using the tree row volume to determine the correct pesticide application rates. Growers are advised to contact their local cooperative extension service or consultant for additional information regarding tree row volume.

Application Instructions

Apply **Cryova PGR** to actively growing trees with ground equipment at rates and stages listed in **Tables 1-4**. **Cryova PGR** has been associated with an increase in fruit cracking on apple varieties known to be prone to cracking (such as Empire and Stayman).

Spray Coverage

Because **Cryova PGR** is absorbed by the leaves, thorough spray coverage of the tree foliage is necessary for adequate uptake. Direct the spray to the portion of the tree where growth control is desired. To achieve thorough coverage, use sufficient water, proper spray pressure, nozzles, nozzle spacing, spray volume per acre, and tractor speed. Consult the spray nozzle and accessory guide for information pertaining to proper equipment calibration.

Timing

For vegetative growth control, make the first **Cryova PGR** application in the spring when trees have 1 to 3 inches of new shoot growth. **Correct timing of application is critical to success**. An early first application (i.e., 1 to 2 inches of shoot growth) is more effective than a later application (i.e., 6 to 8 inches of shoot growth). If additional vegetative growth control is needed, make a sequential application before or immediately after the shoots show signs of regrowth, typically 1 to 4 weeks after the first application. Repeat applications as needed. Refer to **Tables 1-3** for application rates and timings.

Number of Applications

The number of applications will vary depending on the timing of the first application, tree vigor, fruit load, pruning, variety, rootstock and/or the management history of the orchard. For apple orchards in locations with long growing seasons or higher vigor trees or trees with light fruit load, 3 to 5 applications per year can be more effective. The **Cryova PGR** treatment schedule is flexible and can be applied in a number of different schedules depending on the objectives of the individual grower (see **Tables 1-4**). Consult with an extension specialist or consultant for your specific area.

Tree Vigor

Adjust the **Cryova PGR** rate according to the vegetative vigor of the trees (see **Tables 1-4**). Vegetative vigor can be influenced by many factors, including fruit load, pruning, variety, rootstock, and location. A grower's experience is the best guide in predicting tree vigor. Some trees exhibit excessive shoot growth (high vigor) every year due to a combination of variety, rootstock, and location. However, trees that normally exhibit typical shoot growth can exhibit excessive growth in some years due to crop loss or severe winter pruning.

Tree Size

Calculate the **Cryova PGR** rate per acre based on tree size. Base the application rate on the volume of water needed to spray the trees to drip (i.e., dilute spray or tree row volume).

Special Directions For Use for Vegetative Growth Control of Apples Grown in Idaho, Oregon, and Washington

Apply **Cryova PGR** to actively growing trees according to the tree size, rates and application timings listed in **Table 4**. Take into consideration the size and vigor of the apple tree when determining the spray volume and application frequency, timing and rate required to achieve vegetative growth control. Spray volumes are based on the amount of solution required to thoroughly wet the tree foliage to the point of runoff. Consult your local extension agent or consultant for a directions on spray volume.

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Application Rate

The **Cryova PGR** application rate is based on the vegetative vigor and the size of the tree.

1. Assess if trees have low, medium, or high vigor to determine the **Cryova PGR** rate (see **Tables 1-3**).
2. Determine the size of the tree in terms of the amount of water needed for a dilute spray (spray to drip or according to tree row volume).
3. Multiply the **Cryova PGR** rate per 100 gallons of dilute spray by the size of the tree in gallons per acre. The result is the number of ounces needed per acre for those trees. Once the application rate is determined in ounces per acre, it can be concentrated into the actual spray volume.

$$\frac{\text{Ounces of Cryova PGR}}{\text{100 gallons of water}} \times \frac{\text{TRV in gallons}}{\text{acre}} = \frac{\text{ounces}}{\text{acre}}$$

Example calculation. For a block of apple trees that typically produces 25 to 32 inches of shoot growth per year (vigorous growth), the suitable rate would be 2 applications of 6 ounces of **Cryova PGR** per 100 gallons of dilute spray according to **Table 1**. The trees are large and require 300 gallons of water per acre to spray dilute (i.e., spray to drip or to tree row volume).

$$\frac{\text{6 ounces of Cryova PGR}}{\text{100 gallons of water}} \times \frac{\text{300 gallons (TRV)}}{\text{acre}} = \frac{\text{18 ounces}}{\text{acre}}$$

Apply the **Cryova PGR** rate in dilute or concentrated sprays as long as thorough spray coverage is achieved.

Dilute spray volumes are based on the amount of solution required to thoroughly wet the tree foliage to the point of runoff. Consult your local extension agent or consultant for instructions to calculate the dilute coverage based on the tree row volume.

Aerial Application

Aerial application is not registered for use in California.

Apply **Cryova PGR** in a minimum of 10 gallons of spray solution per broadcast acre. Aerial applications generally only provide spray coverage in the top part of the canopy and vegetative growth control will be limited to those areas that receive spray coverage.

Additives and Tank Mixing Information Adjuvant

Use a standard tree fruit spray adjuvant, preferably a non- ionic surfactant, to improve leaf coverage and performance consistency. Follow the manufacturer's rate instructions.

Nitrogen Source (if needed)

If the water source used for spray applications contains high levels of calcium carbonate (hard water), add one pound of ammonium sulfate (AMS) for every pound of **Cryova PGR**. Use high quality spray grade AMS to avoid plugging nozzles.

Previous experience has shown that **Cryova PGR** use by itself does not result in phytotoxicity and that **Cryova PGR** is compatible with many fungicides and insecticides used in apple orchards. However, all varieties and cultivars have not been tested with possible tank mix combinations. Local conditions can also influence crop resistance and may not match those under which testing has been conducted. Therefore, before using any tank mix, test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of applications.

Tank mixes with calcium or boron sprays can result in less growth control from **Cryova PGR**.

Table 1. Application Rates for Vegetative Growth Control in Apples

Application Timing	Cryova PGR plant growth regulator Rate per 100 gallons of Dilute Spray* (ozs)	Cryova PGR Rate per acre** (ozs)
Medium to high vigor trees • Apply at 1 to 3 inches of new shoot growth. • For best results, make subsequent applications at 1 to 4 week intervals and before or immediately after the shoots show signs of regrowth.	6 to 12 (0.10 – 0.21 lb ai)	18 to 36 (0.31 – 0.62 lb ai)
Low vigor trees • Apply at 1 to 3 inches of new shoot growth. • For best results, make subsequent applications at 1 to 4 week intervals and before or immediately after the shoots show signs of regrowth.	3 to 8 (0.05 – 0.14 lb ai)	9 to 24 (0.16 – 0.41 lb ai)
Long growing season • Apply at 1 to 3 inches of new shoot growth. • Make second and third applications at 7 to 14 day intervals. • Make subsequent applications as needed at 10 to 14 day intervals.	3 to 8 (0.05 – 0.14 lb ai)	9 to 24 (0.16 – 0.41 lb ai)
*Refer to the **Application Instructions** section for rate calculations. **Based on 300 gallons of dilute spray per acre.		

Table 2. Application Rates for Special Cases in Apples

Application Timing	Cryova PGR Rate per 100 gallons of Dilute Spray* (ozs)	Cryova PGR Rate per acre** (ozs)
To decrease June drop on trees with light bloom • Apply at 1 to 3 inches of new shoot growth.	10 to 12 (0.17 – 0.21 lb ai)	30 to 36 (0.52 – 0.62 lb ai)
To shape the canopy • Direct the spray to the portion of the tree where growth control is desired. • Apply at 1 to 3 inches of new shoot growth.	6 to 12 (0.10 – 0.21 lb ai)	Not applicable
*Refer to the **Application Instructions** section for rate calculations. **Based on 300 gallons of dilute spray per acre.		

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Table 3. Application Rates for Fire Blight Infections of Shoots (Shoot Blight) for Susceptible Apple Varieties

Fire blight management is not registered for use in California on apple.

Application Timing	Cryova PGR plant growth regulator Rate per 100 gallons of Dilute Spray* (ozs)	Cryova PGR Rate per acre** (ozs)
To reduce fire blight infections of shoot by decreasing vegetative growth • Apply at 1 to 3 inches of new shoot growth. • Make a second application if new shoot growth occurs.	6 to 18 (0.10– 0.21 lb ai)	18 to 36 (0.31 – 0.62 lb ai)
*Refer to the **Application Instructions** section for rate calculations. **Based on 300 gallons of dilute spray per acre.		

Table 4. Application Rates for Vegetative Growth Control of Apples in Idaho, Oregon, and Washington

Apple Tree Size	Cryova PGR Rate* (ozs/A)	Application Timing
Small trees • 8 to 10 feet tall on dwarf rootstocks	6 to 12 (0.10 – 0.21 lb ai)	Apply at 1 to 3 inches of new terminal shoot growth. For best results, make subsequent applications at 1-to-4-week intervals and when shoots show signs of regrowth. Monitor apple trees clearly for vigor. High vigor trees may require more frequent applications through the growing season.
Medium trees • 10 to 14 feet tall on semi-dwarf rootstocks	6 to 18 (0.10 – 0.31 lb ai)	
Large trees • Trees taller than 14 feet on standard non-dwarf rootstocks	18 to 24 (0.31 – 0.41 lb ai)	
*Spray volumes must be a minimum of 100 gallons per acre and increase as necessary to achieve thorough canopy coverage.		

Precaution

- **Rainfast period** - **Cryova PGR** is rainfast 8 hours after application.

Restrictions

- **DO NOT** apply more than 36 ozs/A (0.62 lb ai) of **Cryova PGR** per application.
- **Maximum annual use rate** - **DO NOT** apply more than 99 ozs/A (1.7 lbs ai) of **Cryova PGR** per year.
- **DO NOT** apply more than 48 ozs/A (0.83 lb ai) of **Cryova PGR** within any 21-day interval.
- **Preharvest Interval (PHI)** - **DO NOT** apply within 45 days before harvest.
- **DO NOT** make more than 16 applications of **Cryova PGR** at reduced application rates.
- **Retreatment Interval:** 7 days
- **Restricted Entry Interval (REI)** - 12 hours
- **DO NOT** apply to crops that show injury (leaf phytotoxicity) produced by prior pesticide applications, because this injury can be enhanced or prolonged. Refer to the **Additives and Tank Mixing Information** section for additional tank mixing instructions and precautions.
- **DO NOT** apply this product through any type of irrigation system.

SPECIMEN

Grass Grown for Seed*
*NOT FOR USE IN CALIFORNIA

Cryova PGR is a production management tool for producers of grass grown for seed including perennial ryegrass, Kentucky bluegrass, fine, and tall fescue. **Cryova 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.
Cryova PGR does not affect vegetative growth the following year.

Mode of Action

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

Spray Coverage

Cryova 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. **Cryova PGR** is rainfast within 1 hour of application. **Cryova 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 **Cryova 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 **Cryova PGR**. Perennial biotypes of annual bluegrass are not affected by the use of **Cryova 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 **Cryova 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.

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

Application Timing	Cryova 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** - **Cryova PGR** is rainfast within 1 hour of application.

Restrictions

- **DO NOT** apply more than 29 ozs/A (0.5 lbs ai) of **Cryova PGR** per application.
- **DO NOT** apply more than 29 ozs/A (0.5 lbs ai) of **Cryova PGR** per year.
- **DO NOT** make more than 2 applications of **Cryova 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 **Cryova PGR** application.

Peanut*
*NOT FOR USE IN CALIFORNIA

For use only in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, New Mexico, North Carolina, Oklahoma, South Carolina, Texas, and Virginia.

Cryova PGR controls the vegetative growth of peanuts.

Mode of Action

Cryova PGR acts within a peanut plant to inhibit the biosynthesis of gibberellin. The result is a decrease in cell elongation and a reduction in vegetative growth. Under normal use patterns, **Cryova PGR** will not affect the number of leaves, but will decrease the distance between leaves (internode length).

Application Instructions

Apply **Cryova PGR** to actively growing peanut plants according to the rates instructed in **Table 6**. Make the first application of 7.25 ozs/A (0.125 lb ai) of **Cryova PGR** when 50% of the stems are touching in the row middle (row closure). Make a second application at 100% row closure, as needed. Under conditions that promote extremely rank growth and prior to loss of visual peanut row pattern in the field, apply an optional third application to peanut plants. **DO NOT** make more than 2 applications of **Cryova PGR** in less than 6 weeks. Plants that are under stress due to lack of moisture, disease pressure, or other stress conditions will show little response to **Cryova PGR** application.

Spray Coverage

Because **Cryova PGR** is absorbed by the peanut leaves, thorough spray coverage of the foliage is necessary for adequate uptake.

Broadcast Ground Application

Water Volume. Use a minimum of 20 gallons of spray solution per broadcast acre for optimal performance.

Additives and Tank Mixing Information

Cryova PGR uptake into the peanut plant requires the presence of a nonphytotoxic nitrogen source in the spray solution. Failure to add a nitrogen source to the spray solution will result in unsatisfactory product performance.

Nitrogen Source

- **Urea ammonium nitrate (UAN)** - Use one pint of UAN (commonly referred to as 28%, 30%, or 32% nitrogen solution) per acre.
- **Ammonium sulfate (AMS)** - One pound of AMS per acre can be substituted for one pint of UAN per acre. Use high quality spray grade AMS to avoid plugging nozzles. Other sources of nitrogen are not as effective as those mentioned.

Oil Concentrate

Add one quart of a nonphytotoxic oil concentrate (referred to as crop oil concentrate or COC) per acre to the spray solution to promote consistent performance. Use COC when **Cryova PGR** is applied without a tank mix partner. If **Cryova PGR** is to be tank mixed with a fungicide, the adjuvant specified on the fungicide label can be used instead of the COC.

Additive	Ground Application
Nitrogen Source	1 pint UAN
Oil Concentrate	1 quart

Cryova PGR is compatible with many fungicides and insecticides commonly used in peanuts. To ensure mixing compatibility, perform a compatibility test (refer to the **Mixing Instructions** section).

DO NOT tank mix **Cryova PGR** with any application of calcium, including gypsum.

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Table 6. Application Rates for Vegetative Growth Control on Peanuts

Application Timing	Cryova PGR Rate (ozs/A)	Additive Rate per Acre
First application • Apply to peanuts when 50% of stems are touching in row middle (row closure).	7.25 (0.125 lb ai)	1 pint UAN
Second application • Make a second application at 100% row closure, as needed.	3.6 to 7.25 (0.062 – 0.125 lb ai)	

Precautions

- **Rainfast period** - **Cryova PGR** is rainfast 8 hours after application.

Restrictions

- **DO NOT** apply more than 7.25 ozs/A (0.13 lbs ai) of **Cryova PGR** per application.
- **Maximum annual use rate** - **DO NOT** apply more than 21.75 ozs/A (0.374 lb ai) of **Cryova PGR** per year.
- Following the first application of 7.25 ozs/A (0.13 lb ai) **DO NOT** make more than 4 applications at the reduced application rate.
- **DO NOT** make more than 2 **Cryova PGR** applications in less than 6 weeks.
- **Preharvest Interval (PHI)** - **DO NOT** apply within 25 days before harvest.
- **Retreatment Interval:** 7 days
- **Restricted Entry Interval (REI)** - 12 hours
- **DO NOT** graze or feed treated crops.
- **DO NOT** apply **Cryova PGR** by air to peanut.
- **DO NOT** apply to crops that show injury (leaf phytotoxicity or plant stunting) produced by prior product applications, because this injury can be enhanced or prolonged. Refer to the **Additives and Tank Mixing Information** section for additional tank mixing instructions and precautions.
- **DO NOT** apply through any type of irrigation equipment.
- **Plantback/Rotation Restriction** - If replanting or crop rotation is necessary in treated fields, **DO NOT** plant any crop other than peanuts for 30 days following the last **Cryova PGR** application.
- **Stress** - **DO NOT** apply to crops under stress due to lack of moisture, hail damage, flooding, herbicide injury, or mechanical injury, as reduced activity can result.

Pear*

***NOT FOR USE IN CALIFORNIA**

Cryova PGR reduces vegetative growth in pear orchards allowing a balance between canopy development and fruit production. **Cryova PGR** provides many beneficial effects in pears including: reduced need for summer and dormant pruning, improved light penetration into the tree canopy, and reduced incidence and severity of fire blight of shoots (shoot blight).

Mode of Action

Cryova PGR acts within pear trees to inhibit the biosynthesis of gibberellin, which is the natural plant hormone that regulates cell elongation. Inhibition of gibberellins results in reduced shoot growth. Vegetative growth suppression with **Cryova PGR** typically lasts for 2 to 5 weeks per application during the current growing season. **Cryova PGR** does not affect vegetative growth the following year.

Gibberellic Acids

When gibberellic acid sprays are applied in the same season as **Cryova PGR** to reduce cracking or reduce russetting, a loss in efficacy can occur in the **Cryova PGR** and/or the gibberellin spray.

Thinning

Cryova PGR application can cause a tree to retain more fruit. As a result, thinning programs may need adjustment.

Vegetative Growth and Fire Blight Management

Fire blight management is not registered for use in California on pear.

Controlling vegetative growth with **Cryova PGR** can reduce fire blight infections of pears in two ways. First, applications of **Cryova PGR** have been shown to reduce latent bloom. Pear trees are the most susceptible to fire blight invasion during bloom. Reducing the length of the bloom period can help manage fire blight. Second, trees treated with **Cryova PGR** can be less susceptible to infection of shoots (refer to **Table 7** for application rates). For maximum reduction in fire blight susceptibility, apply **Cryova PGR** at least 10 days before weather conditions favorable for shoot and leaf infections occur. Use **Cryova PGR** as part of a total IPM strategy to control fire blight.

Effect on Fruit Set and Fruit Size

Applying **Cryova PGR** may allow the tree to retain more fruit than untreated trees. Increasing the fruit load per tree will reduce the average fruit size. Evaluate this effect in determining whether to use **Cryova PGR**. When using **Cryova PGR**, growers must carefully regulate the fruit load per tree.

Tree Row Volume (TRV)

Using **Cryova PGR** as part of a management program significantly reduces the tree row volume. Spray guides typically specify using the tree row volume to determine the correct pesticide application rates. Growers are advised to contact their local cooperative extension service or consultant for additional information regarding tree row volume.

Application Instructions

Apply **Cryova PGR** to actively growing trees with ground equipment at rates and timing listed in **Table 7**.

Spray Coverage

Because **Cryova PGR** is absorbed by the leaves, thorough spray coverage of the tree foliage is necessary for adequate uptake. Direct the spray to the portion of the tree where growth control is desired. To achieve thorough coverage, use sufficient water, proper spray pressure, nozzles, nozzle spacing, spray volume per acre, and tractor speed. Consult the spray nozzle and accessory guide for information pertaining to proper equipment calibration.

Timing

For vegetative growth control, make the first **Cryova PGR** application in the spring when trees have 1 to 3 inches of new shoot growth. **Correct timing of application is critical to success**. An early first application (i.e., 1 to 2 inches of shoot growth) is more effective than a later application (i.e., 6 to 8 inches of shoot growth). If additional vegetative growth control is needed, make a sequential application before or immediately after the shoots show signs of regrowth, typically 1 to 4 weeks after the first application. Repeat applications as needed. Refer to **Table 7** for application rates and timing.

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Number of Applications
The number of applications will vary depending on the timing of the first application, tree vigor, fruit load, pruning, variety, rootstock and/or the management history of the orchard. For pear orchards in locations with long growing seasons or higher vigor trees or trees with light fruit load, 3 to 5 applications per year can be more effective. The **Cryova PGR** treatment schedule is flexible and can be applied in a number of different schedules depending on the objectives of the individual grower (see **Table 7**). Consult with an extension specialist or consultant for your specific area.

Tree Vigor
Adjust the **Cryova PGR** rate according to the vegetative vigor of the trees (see **Table 7**).

Vegetative vigor can be influenced by many factors, including fruit load, pruning, variety, rootstock, and location. A grower's experience is the best guide in predicting tree vigor. Some trees exhibit excessive shoot growth (high vigor) every year due to a combination of variety, rootstock, and location. However, trees that normally exhibit typical shoot growth can exhibit excessive growth in some years due to crop loss or severe winter pruning.

Tree Size
Calculate the **Cryova PGR** rate per acre based on tree size. Base the application rate on the volume of water needed to spray the trees to drip (i.e., dilute spray or tree row volume).

Application Rate

The **Cryova PGR** application rate is based on the vegetative vigor and the size of the tree.
1. Assess if trees have low, medium, or high vigor to deter- mine the **Cryova PGR** rate.
2. Determine the size of the tree in terms of the amount of water needed for a dilute spray (spray to drip or according to tree row volume).
3. Multiply the **Cryova PGR** rate per 100 gallons of dilute spray by the size of the tree in gallons per acre. The result is the number of ounces needed per acre for those trees. Once the application rate is determined in ounces per acre, it can be concentrated into the actual spray volume.

$$\frac{\text{Ounces of } \mathbf{Cryova\ PGR}}{\text{100 gallons of water}} \times \frac{\text{TRV in gallons}}{\text{acre}} = \frac{\text{ounces}}{\text{acre}}$$

Example calculation. For a block of pear trees that typically produces 25 to 32 inches of shoot growth per year (vigorous growth), the suitable rate would be 2 applications of 6 ounces (0.103 lb ai) of **Cryova PGR** per 100 gallons of dilute spray according to **Table 7**. The trees are large and require 300 gallons of water per acre to spray dilute (i.e., spray to drip or to tree row volume).

$$\frac{\text{6 ounces of } \mathbf{Cryova\ PGR}}{\text{100 gallons of water}} \times \frac{\text{300 gallons (TRV)}}{\text{acre}} = \frac{\text{18 ounces}}{\text{acre}}$$

Apply the **Cryova PGR** rate in dilute or concentrated sprays as long as thorough spray coverage is achieved.

Dilute spray volumes are based on the amount of solution required to thoroughly wet the tree foliage to the point of runoff. Consult your local extension agent or consultant for instructions to calculate dilute coverage based on tree row volume.

Aerial Application
Aerial application is not registered for use in California.

Apply **Cryova PGR** in a minimum of 10 gallons of spray solution per broadcast acre. Aerial applications generally only provide spray coverage in the top part of the canopy and vegetative growth control will be limited to those areas that receive spray coverage.

Additives and Tank Mixing Information Adjuvant
Use a standard tree fruit spray adjuvant, preferably a non-ionic surfactant, to improve leaf coverage and performance consistency. Follow the manufacturer's rate instructions.

Nitrogen Source (if needed)
If the water source used for spray applications contains high levels of calcium carbonate (hard water), add one pound of ammonium sulfate (AMS) for every pound of **Cryova PGR**. Use high quality spray grade AMS to avoid plugging nozzles.

Previous experience has shown that **Cryova PGR** use by itself does not result in phytotoxicity and that **Cryova PGR** is compatible with many fungicides and insecticides used in pear orchards. However, all varieties and cultivars have not been tested with possible tank mix combinations. Local conditions can also influence crop resistance and may not match those under which testing has been conducted. Therefore, before using any tank mix, test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of applications.

Tank mixes with calcium or boron sprays can result in less growth control from **Cryova PGR**.

Table 7. Application Rates for Vegetative Growth Control and Fire Blight Infections of Shoots (Shoot Blight) in Pears

Application Timing	**Cryova PGR plant growth regulator Rate per100 gallons of Dilute Spray*** (ozs)	**Cryova PGR Rate per acre**** (ozs)
Multiple applications • Apply at 1 to 3 inches of new shoot growth. • Make a second application at 10- to 17-day intervals. • Make subsequent applications as needed at 14- to 21-day intervals.	6 (0.10 lb ai)	18 (0.31 lb ai)
Vegetative growth control and reduced latent bloom (fire blight management) • Apply at 1 to 3 inches of new shoot growth. • Make a second application after 21 days.	10 to 12 (0.17 lb ai)	30 to 36 (0.52 – 0.62 lb ai)
*Refer to the **Application Instructions** section for rate calculations. **Based on 300 gallons of dilute spray per acre.		

Precautions
- **Rainfast period** - **Cryova PGR** is rainfast 8 hours after application.

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Restrictions

- **DO NOT** apply more than 36 ozs/A (0.62 lbs ai) of **Cryova PGR** per application.
- **Maximum annual use rate** - **DO NOT** apply more than 99 ozs/A (1.7 lb ai) of **Cryova PGR** per year.
- **DO NOT** make more than 5 applications of **Cryova PGR** at reduced application rates.
- **DO NOT** apply more than 48 ozs/A (0.83 lbs ai) of **Cryova PGR** within any 21-day interval.
- **Retreatment Interval:** 7 days
- **Preharvest Interval (PHI)** - **DO NOT** apply within 45 days before harvest.
- **Restricted Entry Interval (REI)** - 12 hours
- **DO NOT** apply to crops that show injury (leaf phytotoxicity) produced by prior pesticide applications, because this injury can be enhanced or prolonged. Refer to the **Additives and Tank Mixing Information** section for additional tank mixing instructions and precautions.
- **DO NOT** apply this product through any type of irrigation system.

Sweet Cherry

Cryova PGR reduces vegetative growth in sweet cherry orchards and can reduce or delay the need for tree pruning.

Mode of Action

Cryova PGR acts within sweet cherry trees to inhibit the biosynthesis of gibberellins, which is the natural plant hormone that regulates cell elongation. Inhibition of gibberellins results in reduced shoot growth.

Vegetative Control Use Rates and Tree Vigor

Adjust the **Cryova PGR** rate according to the vegetative vigor of the trees (refer to **Table 8**). Vegetative vigor can be influenced by many factors, including fruit load, pruning, variety, rootstock, and location. A grower's experience is the best guide in predicting tree vigor. Some trees exhibit excessive shoot growth (high vigor) every year due to a combination of variety, rootstock, and location. Trees that normally exhibit typical shoot growth can exhibit excessive growth in some years due to crop loss or severe winter pruning.

Application Instructions

Apply **Cryova PGR** to actively growing trees with ground equipment at rates and stages listed in **Table 8**.

Spray Coverage

Because **Cryova PGR** is absorbed by the leaves, thorough spray coverage of the tree foliage is necessary for adequate uptake. Direct the spray to the portion of the tree where growth control is desired. To achieve thorough coverage, use sufficient water, proper spray pressure, nozzles, nozzle spacing, spray volume per acre, and tractor speed.

Timing

For vegetative growth control, make the first **Cryova PGR** application in the spring when 1 to 3 inches of new shoot growth has occurred. **Correct timing of application is critical to success.** An early first application (i.e., 1 to 2 inches of shoot growth) is more effective than a later application (i.e., 4 to 8 inches of shoot growth). If additional vegetative growth control is needed, make a sequential application before or immediately after the shoots show signs of regrowth, typically 2 to 4 weeks after first application. Repeat applications as needed. Refer to **Table 8** for application rates and timing.

Number of Applications

The number of applications will vary depending on the timing of the first application, tree vigor, fruit load, pruning, variety, rootstock and/or the management history of the orchard. For cherry orchards in locations with long growing seasons or higher vigor trees or trees with light fruit load, 3 to 5 applications per year can be more effective. The **Cryova PGR** treatment schedule is flexible and can be applied in a number of different schedules depending on the objectives of the individual grower. Consult with an extension specialist or consultant for your specific area.

Aerial Application

Aerial application is not registered for use in California.

Apply **Cryova PGR** in a minimum of 10 gallons of spray solution per broadcast acre. Aerial applications generally only provide spray coverage in the top part of the canopy and vegetative growth control will be limited to those areas that receive spray coverage.

Additives and Tank Mixing Information Adjuvant

Use a standard spray adjuvant, preferably a non-ionic surfactant, to improve leaf coverage and performance consistency. Follow the manufacturer's rate instructions.

Nitrogen Source (if needed)

If the water source used for spray applications contains high levels of calcium carbonate (hard water), add one pound of ammonium sulfate (AMS) for every pound of **Cryova PGR**. Use high quality spray grade AMS to avoid plugging nozzles.

Previous experience has shown that **Cryova PGR** use by itself does not result in phytotoxicity and that **Cryova PGR** is compatible with many fungicides and insecticides used in cherry orchards. However, all varieties and cultivars have not been tested with possible tank mix combinations. Local conditions can also influence crop resistance and may not match those under which testing has been conducted. Therefore, before using any tank mix, test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of applications.

Tank mixes with calcium or boron sprays can result in less growth control from **Cryova PGR.**

Table 8. Application Rates for Vegetative Growth Control in Sweet Cherries

Application Timing	Product Rate per Application (ozs/A)
High vigor trees	8 to 20 (0.14 – 0.34 lb ai)
Medium vigor trees	8 to 12 (0.14 – 0.21 lb ai) in California 6 to 12 (0.10 – 0.21 lb ai) in all other states
Low vigor trees	**DO NOT** apply **Cryova PGR** to low vigor trees

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940 NW Cary Parkway, Suite 200
Cary, NC 27513

Precaution

- **Rainfast period** - **Cryova PGR** is rainfast 8 hours after application.

Restrictions

- **Maximum annual use rate** - **DO NOT** apply more than a total amount of 40 ozs/A (0.69 lbs ai) **Cryova PGR** per acre, per year as outlined in **Table 8.**
- **DO NOT** apply more than 20 ozs/A (0.34 lb ai) of **Cryova PGR** within any 14-day interval.
- **DO NOT** make more than 6 applications per acre per year when using reduced application rates.
- **Preharvest Interval (PHI)** - **DO NOT** apply within 20 days before harvest.
- **Restricted Entry Interval (REI)** - 12 hours
- **DO NOT** apply to crops that show injury (leaf phytotoxicity) produced by prior pesticide applications because this injury may be enhanced or prolonged. Refer to the **Additives and Tank Mixing Information** section for additional tank mixing instructions and precautions.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** use **Cryova PGR** on tart cherries.

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.

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Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513