



PRO-HEX



**Plant growth regulator for use on apples, grass grown
for seed*, peanuts*, pears*, and sweet cherries**

*Not for use in California

Active Ingredient: Prohexadione-calcium**

[calcium 3-oxido-5-oxo-4-propionylcyclohex-3-enecarboxylate]27.5%

Other Ingredients:72.5%

Total:100.0%

**Equivalent to 0.275 pounds of active ingredient per pound of product

Net Contents: 5 lb (2.27kg)

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID

IF SWALLOWED	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have a person sip a glass of water if able to swallow.• DO NOT induce vomiting unless told to by a poison control center or doctor.• DO NOT give anything to an unconscious person
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.
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 eye.• Call a poison control center or doctor for treatment advice.

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

See inside panel for First Aid, Precautionary, Storage and Disposal Statements, and Directions for Use

EPA Reg. No. 62097-41-71089

EPA Est. No. indicated by first letter
of batch number on this package

(E) 39578-TX-001 (C) 70815-GA-001

Distributed by:

Genesis Agri-Products, Inc.

Warehouse: 2522 Old Town Road,
Union Gap, Washington 98903

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to by a poison control center or doctor. • DO NOT give anything by mouth to an unconscious person.
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.
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 eye. • Call a poison control center or doctor for treatment advice.
<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

CAUTION. Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes, skin, 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
- Shoes plus socks
- Chemical resistant gloves made of any waterproof material, polyethylene or polyvinyl chloride

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.
- 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.

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.

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 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.

(continued)

AGRICULTURAL USE REQUIREMENTS (continued)

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, plant, soil or water:

- Coveralls
- Shoes plus socks
- Chemical resistant gloves made of any waterproof material ,polyethylene or polyvinyl chloride.

GEN-PRO PRO-HEX 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 GEN-PRO PRO-HEX 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 GEN-PRO PRO-HEX 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 GEN-PRO PRO-HEX.
- 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 GEN-PRO PRO-HEX.
- Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying GEN-PRO PRO-HEX.

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.
- This product cannot be used to formulate or reformulate any other pesticide product.

Tank Mixing Information:

Testing has shown that GEN-PRO PRO-HEX when used in combination with AMS and a wide range of adjuvants does not result in phytotoxicity. GEN-PRO PRO-HEX 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 GEN-PRO PRO-HEX.
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 GEN-PRO PRO-HEX, 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 specified 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 must 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

APPLES:

GEN-PRO PRO-HEX can be used as a production management tool on apples to suppress vegetative growth, i.e., shoot growth reduction, resulting in a balance between canopy development and fruit production. Growth suppression with GEN-PRO PRO-HEX generally lasts for 2-5 weeks per application. GEN-PRO PRO-HEX does not affect vegetative growth the year following application.

Benefits resulting from the use of GEN-PRO PRO-HEX include:

- Reduction in vegetative shoot growth
- Lessens the need or frequency for summer and/or dormant pruning
- Improved fruit color in red or bi-color apple varieties due to better light penetration into the tree canopy
- Reduced incidence and severity of fire blight of shoots

During years when both GEN-PRO PRO-HEX and products containing gibberellins, e.g., Novagib® 10L (EPA Reg. No. 62097-7-82917) are used, reductions in efficacy may occur in the GEN-PRO PRO-HEX and/or gibberellin treatments.

The use of GEN-PRO PRO-HEX may result in an increase in fruit retention. Therefore, thinning programs may need to be adjusted when using GEN-PRO PRO-HEX.

When used as directed, GEN-PRO PRO-HEX will reduce the incidence and severity of fire blight infection of shoots and leaves, i.e., shoot blight, by reducing vegetative growth, thus decreasing host susceptibility. This decrease in susceptibility will not become effective until approximately 10 days after application. GEN-PRO PRO-HEX does not have direct antibiotic activity against the fire blight bacteria (*Erwinia amylovora*) and is not effective for the suppression of blossom blight. For maximum reduction in fire blight susceptibility, apply GEN-PRO PRO-HEX at least 10 days before the occurrence of weather conditions favorable for shoot and leaf infections, and used as one component of a comprehensive control strategy against fire blight.

Application Timings:

Early Timings for Reducing Shoot/Fire Blight (all approved states except California): Early applications of GEN-PRO PRO-HEX can be made to help reduce shoot/fire blight infestations. Research has shown that these early applications of prohexadione calcium can help reduce the incidence and severity of fire blight in shoots. GEN-PRO PRO-HEX does not act directly on the fire blight and needs to be used as part of an overall program for controlling fire blight in orchards. For best results, make the first application at Pink stage with subsequent applications made at 1-4 week intervals. These early applications can also reduce shoot growth in the early part of the growing season.

The amount of shoot growth reduction observed following these early applications may vary due to variety, root stock, age of trees, growing conditions and production programs used in each orchard. The rate, number of applications and application interval may vary by orchard due to the amount of fire/shoot blight pressure in the orchard and the vigor of the trees present. The applications made at this early stage would be considered part of the overall vegetative growth suppression/control program for the trees in the orchard for that production year.

Vegetative Growth Control: For vegetative growth control, make the first application of GEN-PRO PRO-HEX when shoots have 1-3" of new growth. For best results, make subsequent applications at 1-4 week intervals, before or immediately following signs of shoot regrowth.

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 a long growing season or on high vigor trees and/or trees with light fruit load, 3 to 5 applications per year may be required.

Tree Vigor: Adjust the GEN-PRO PRO-HEX rate according to the vegetative vigor of the trees (see Table 1). Vegetative vigor can be influenced by many factors, including variety, rootstock, fruit load, cultural management and location.

Tree Size: Calculate the rate per acre of GEN-PRO PRO-HEX 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 (TRV). Consult your local extension agent or consultant for advice on spray volume.

Application Rates: Specified rates will be based on desired treatment effect, i.e., vegetative growth control, shoot blight suppression, etc. For vegetative growth control, base GEN-PRO PRO-HEX rates on level of tree vigor and/or length of growing season. Refer to Table 1 for directed rates per application.

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

Table 1. Specified Application Rates on Apples

Desired Treatment Effect	Rate per Acre¹	Application Directions
Early Season application for reduction of fire blight incidence & severity in shoots and shoot growth reduction ³	2-6 oz (0.03-0.11 lbs ai)	<ul style="list-style-type: none"> • Apply beginning at Pink stage. Make subsequent applications at 1-4 week intervals to help suppress fire blight infestations. These applications will also reduce early season shoot growth.
Growth Reduction on Medium to High Vigor Trees	18-36 oz (0.31-0.62 lbs ai)	<ul style="list-style-type: none"> • Apply at 1-3" of new shoot growth. • Make subsequent applications at 1-4 week intervals and before or immediately after shoot regrowth occurs.
Growth Reduction on Low Vigor Trees	9-24 oz (0.16-0.41 lbs ai)	<ul style="list-style-type: none"> • Apply at 1-3" of new shoot growth. • Make subsequent applications at 1-4 week intervals and before or immediately after shoot regrowth occurs.
Growth Reduction During Long Growing Season	9-24 oz (0.16-0.41 lbs ai)	<ul style="list-style-type: none"> • Apply at 1-3" of new shoot growth. • Make a second and third application at 7-14 day intervals. • Make subsequent applications as needed at 10-14 day intervals.
To Decrease June Drop on Trees With Light Bloom	30-36 oz (0.51-0.62 lbs ai)	<ul style="list-style-type: none"> • Apply at 1-3" of new shoot growth.
To Shape Tree Canopy	See footnote 2	<ul style="list-style-type: none"> • Apply at 1-3" of new shoot growth. • Direct the spray to the portion of the tree where growth control is desired.
To Reduce Fire Blight Infections of Shoot by Decreasing Vegetative Growth	18-36 oz (0.31-0.62 lbs ai)	<ul style="list-style-type: none"> • Apply at 1-3" of new shoot growth. • Make a second application if new shoot growth occurs.

¹Based on 300 gallons of dilute spray per acre.

²Apply 6-12 oz of GEN-PRO PRO-HEX (0.10-0.21 lbs ai) per 100 gallons of dilute spray until run-off.

³All approved states except California

Ground Application: Apply GEN-PRO PRO-HEX to actively growing trees using calibrated ground equipment. GEN-PRO PRO-HEX may be applied using either dilute or concentrate spray equipment as long as sufficient spray coverage is achieved. Direct spray to the portion of the tree where growth control is desired. To achieve good coverage, apply GEN-PRO PRO-HEX in a sufficient spray volume per acre utilizing proper spray pressure, nozzles, nozzle spacing and tractor speed.

Aerial Application (all approved states except California): Apply GEN-PRO PRO-HEX 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 tree canopy. Vegetative growth control will be limited to those areas of the canopy that receive spray coverage.

Special Directions for Vegetative Growth Control on Apples Grown in Idaho, Oregon and Washington: Apply GEN-PRO PRO-HEX to actively growing trees according to the tree size, rates and application timings listed in Table 2. It is important to take into consideration the size and vigor of the trees 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 advice on spray volume.

Table 2. Specified Application Rates for Vegetative Growth Control of Apples in Idaho, Oregon or Washington.

Apple Tree Size	Rate per Acre ¹	Application Directions
Small Trees (8-10 feet tall on dwarf rootstocks)	6-12 oz (0.10-0.21 lbs ai)	Apply at 1-3" of new shoot growth. Make subsequent applications at 1-4 week intervals when shoots show signs of regrowth.
Medium Trees (10-14 feet tall on semi-dwarf rootstocks)	6-18 oz (0.10-0.31 lbs ai)	
Large Trees (greater than 14 feet tall on standard non-dwarf rootstocks)	18-24 oz (0.31-0.41 lbs ai)	High vigor trees may require more frequent applications through the growing season.

¹Spray volumes must be a minimum of 100 gallons per acre and increase as necessary to achieve thorough canopy coverage.

Limitations on Apples:

- GEN-PRO PRO-HEX is rainfast 8 hours after application.
- The active ingredient in GEN-PRO PRO-HEX has been shown to increase fruit cracking on apple varieties, for example, Empire and Stayman, which are known to be prone to cracking.

Restrictions on Apples:

- **DO NOT** apply more than 36 oz per acre of GEN-PRO PRO-HEX (0.62 lbs ai acre) per application.
- **DO NOT** apply more than a total of 99 oz per acre of GEN-PRO PRO-HEX (1.7 lbs ai per acre) per acre per year.
- **DO NOT** apply more than a total of 48 oz per acre of GEN-PRO PRO-HEX (0.83 lbs ai acre) within any 21-day interval.
- **DO NOT** make more than 16 applications of 6 oz GEN-PRO PRO-HEX (0.11 lbs ai) per acre per year or more than 2 applications of 36 oz GEN-PRO PRO-HEX (0.62 lbs ai) per acre per year. The rate applied for individual applications may vary depending

on conditions, age of trees and vigor of trees, but the overall rate applied per acre per year may still not exceed 99 oz of product.

- **DO NOT** retreat in less than 1 week.
- **DO NOT** apply within 45 days before harvest.
- **DO NOT** apply to crops that show injury (leaf phytotoxicity) produced by any other prior pesticide applications because this injury can be enhanced or prolonged.

PEARS (all approved states except California):

GEN-PRO PRO-HEX can be used as a production management tool on pears to suppress vegetative growth, i.e., shoot growth reduction, resulting in a balance between canopy development and fruit production. Growth suppression with GEN-PRO PRO-HEX generally lasts for 2-5 weeks per application. GEN-PRO PRO-HEX does not affect vegetative growth the year following application.

Benefits resulting from the use of GEN-PRO PRO-HEX include:

- Reduction in vegetative shoot growth
- Lessens the need or frequency for summer and/or dormant pruning
- Improved light penetration into the tree canopy
- Reduced incidence and severity of fire blight of shoots

During years when both GEN-PRO PRO-HEX and products containing gibberellins, e.g. Novagib® 10L (EPA Reg. No. 62097-7), are used, reductions in efficacy may occur in the GEN-PRO PRO-HEX and/or gibberellin treatments.

The use of GEN-PRO PRO-HEX may result in an increase in fruit retention. Therefore, thinning programs may need to be adjusted when using GEN-PRO PRO-HEX.

When used as directed, GEN-PRO PRO-HEX can reduce the incidence and severity of fire blight infection in pears in two ways: 1) The active ingredient in GEN-PRO PRO-HEX can reduce latent bloom in pear. During bloom pear trees are more susceptible to infection from fire blight. By reducing the bloom period and thusly reducing the time frame for infection to occur, the chance of fire blight infection may be decreased. 2) Applications of GEN-PRO PRO-HEX reduce vegetative growth in pears. This reduction in vegetative growth helps lessen host susceptibility. This decrease in susceptibility will not become effective until approximately 10 days after application. GEN-PRO PRO-HEX does not have direct antibiotic activity against fire blight. For maximum reduction in fire blight susceptibility, apply GEN-PRO PRO-HEX at least 10 days before the occurrence of weather conditions favorable for shoot and leaf infections. Use GEN-PRO PRO-HEX as just one component of a comprehensive control strategy against fire blight.

Application Timings: For vegetative growth control, make the first application of GEN-PRO PRO-HEX when shoots have 1-3" of new shoot growth. For best results, make subsequent applications at 1-4 week intervals, before or immediately following signs of shoot regrowth.

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 a

long growing season or on high vigor trees and/or trees with light fruit load, 3 to 5 applications per year may be required.

Tree Vigor: Adjust the GEN-PRO PRO-HEX rate according to the vegetative vigor of the trees (see Table 3). Vegetative vigor can be influenced by many factors, including variety, rootstock, fruit load, cultural management and location. **DO NOT** apply to weak or damaged trees or trees suffering from injury from prior pesticide applications or pest injury.

Tree Size: Calculate the rate per acre of GEN-PRO PRO-HEX based on tree size, volume of water needed to spray the trees to drip, i.e., dilute spray or Tree Row Volume (TRV), level of tree vigor, and/or length of growing season. Consult your local extension agent or consultant for advice on spray volume.

Affect on Return Bloom: Applications of GEN-PRO PRO-HEX can reduce bloom in the following year/crop cycle. This must be taken into account when making applications of GEN-PRO PRO-HEX for vegetative growth control. High daytime temperatures (90 F or higher) before and during floral initiation (bloom to approximately 6 weeks after bloom) can have a negative effect on return bloom in pears due to increased stress on the trees. Applications of GEN-PRO PRO-HEX made during these periods of high temperatures may amplify these effects on return bloom. Higher application rates and number of applications may also increase potential for return bloom reduction in the following crop cycle.

Application Rates: Specified rates will be based on desired treatment effect, i.e., vegetative growth control, shoot blight suppression, etc. Refer to **Table 3** for directed rates per application.

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

Table 3. Specified Application Rates on Pears

Application Timing	Rate per Acre¹	Rate per 100 Gallons of Dilute Spray²	Restrictions
For Vegetative Growth Control: First application: <ul style="list-style-type: none"> • Apply at 1-3" of new shoot growth Subsequent applications: <ul style="list-style-type: none"> • Make any subsequent applications at 1-4 week intervals and before or immediately after shoot regrowth occurs. 	6-18 oz (0.10-0.31 lbs. ai)	6 oz (0.10 lbs. ai)	See "Restrictions & Limitations on Pears" section below". Applications made during bloom or within 6 weeks following bloom may reduce bloom in the following crop cycle. This can be affected by the health of the tree, pest infestations during the current season and climatic conditions between bloom in the current season and bloom in the following season. Use of lower rates and no more than 2-3 applications during bloom and for 6 weeks following bloom is advised.
For Vegetative Growth Control and Reduced Latent Bloom (Fire Blight Management): <ul style="list-style-type: none"> • Apply at 1-3" inches of new shoot growth. • Make a second application after 21 days. 	30-36 oz (0.51-0.62 lbs. ai)	10-12 oz (0.17-0.21 lbs. ai)	See "Restrictions & Limitations on Pears" section below. Applications made during bloom or within 6 weeks following bloom may reduce bloom in the following crop cycle. This can be affected by the health of the tree, pest infestations during the current season and climatic conditions between bloom in the current season and bloom in the following season.

¹ Based on 300 gallons of dilute spray per acre.

² Apply 6-12 oz of GEN-PRO PRO-HEX (0.10-0.21 lbs. ai) per 100 gallons of dilute spray.

Ground Application: Apply GEN-PRO PRO-HEX to actively growing trees using calibrated ground equipment. GEN-PRO PRO-HEX may be applied using either dilute or concentrate spray equipment as long as sufficient spray coverage is achieved. Direct spray to the portion of the tree where growth control is desired. To achieve good coverage, apply GEN-PRO PRO-HEX in a sufficient spray volume per acre utilizing proper spray pressure, nozzles, nozzle spacing and tractor speed.

Aerial Application (all approved states except California): Apply GEN-PRO PRO-HEX 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 tree canopy. Vegetative growth control will be limited to those areas of the canopy that receive spray coverage.

Limitation on Pears:

- GEN-PRO PRO-HEX is rainfast 8 hours after application.
- Note comments concerning return bloom in **Table 3. Specified Application Rates on Pears** above.

Restrictions on Pears:

- **DO NOT** apply more than 36 oz per acre of GEN-PRO PRO-HEX (0.62 lbs. ai) per application.
- **DO NOT** apply more than a total of 99 oz of GEN-PRO PRO-HEX (1.7 lbs. ai) per acre, per year.
- **DO NOT** apply more than a total of 48 oz per acre of GEN-PRO PRO-HEX (0.83 lbs. ai) within any 21-day interval.
- **DO NOT** retreat in less than 1 week.
- **DO NOT** make more than 5 applications of 18 oz of GEN-PRO PRO-HEX (0.31 lbs. ai) per acre per year or more than 2 applications of 36 oz of GEN-PRO PRO-HEX (0.62 lbs. ai) per acre per year. The rate applied for individual applications may vary depending on conditions, age of trees and vigor of trees, but the overall rate applied per acre per year may still not exceed 99 oz of product (1.7 lbs. ai).
- **DO NOT** apply within 45 days before harvest.
- **DO NOT** apply to crops that are weak or show injury (leaf phytotoxicity) produced by any other prior pesticide applications because this injury can be enhanced or prolonged.
- **DO NOT** apply GEN-PRO PRO-HEX to pears through any type of irrigation system.

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

GEN-PRO PRO-HEX 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. GEN-PRO PRO-HEX 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 GEN-PRO PRO-HEX do not occur by soil uptake. GEN-PRO PRO-HEX 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 GEN-PRO PRO-HEX. 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 4 for application rates and timings of GEN-PRO PRO-HEX to reduce vegetative growth in grass grown for seed.

Table 4. Application Rates and Timings for Vegetative Growth Control in Grass Grown for Seed.

Application Timing	Application Rate per Acre
Single application: <ul style="list-style-type: none"> • Apply from flag leaf emergence up to early heading growth stage. 	14-29 oz (0.24-0.50 lbs ai)
Split applications: <ul style="list-style-type: none"> • Apply from flag leaf emergence up to early heading growth stage. • Make a second application 7-10 days later when new growth occurs. 	7-14 oz (0.12-0.24 lbs 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:

GEN-PRO PRO-HEX 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. GEN-PRO PRO-HEX may not be effective against some annual bluegrass biotypes.

Limitation on Grass Grown for Seed:

- GEN-PRO PRO-HEX is rainfast 1 hour after application.

Restrictions on Grass Grown for Seed:

- **DO NOT** apply more than 29 oz of GEN-PRO PRO-HEX (0.50 lbs ai) per acre per application.
- **DO NOT** apply more than a total of 29 oz of GEN-PRO PRO-HEX (0.50 lbs ai) per acre, per year.
- **DO NOT** retreat in less than 1 week.
- **DO NOT** make more than 2 applications of 14 oz of GEN-PRO PRO-HEX (0.24 lbs ai) per acre per year or more than 1 application of 29 oz of GEN-PRO PRO-HEX (0.50 lbs 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 GEN-PRO PRO-HEX, **DO NOT** plant any crop other than grass grown for seed for 30 days following application.

PEANUTS (all approved states except California):

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

For consistent performance on peanuts, add one pound of a spray grade ammonium sulfate (AMS) for every pound of GEN-PRO PRO-HEX. Use a standard spray adjuvant, preferably a non-ionic surfactant, to improve leaf coverage and performance consistency. If GEN-PRO PRO-HEX is being applied without a tank-mix partner, a non-phytotoxic crop oil concentrate (COC) can be used in place of a non-ionic surfactant. Always follow the manufacturer's rate directions.

Apply GEN-PRO PRO-HEX to actively growing peanut plants according to the rates directed in Table 5. Initially apply 7.25 ounces (0.13 lbs ai) per acre when 50% of the peanut stems are touching the row middle i.e. row closure. Make a second application at 100% row closure, as needed. Under conditions that are favorable to extremely rank growth, a third application may be required. Make GEN-PRO PRO-HEX applications prior to loss of visual row pattern. Crops under stress due to lack of moisture, hail damage, flooding, mechanical injury, etc. will show little response to GEN-PRO PRO-HEX.

Table 5. Application Rates and Timings for Vegetative Growth Control in Peanuts.

Application Timing	Application Rate per Acre
First application: • Apply when 50% of the peanut stems are touching in row middle (row closure).	7.25 oz (0.13 lbs ai)
Second application: • Make a second application at 100% row closure as needed.	3.6-7.25 oz (0.06-0.13 lbs ai)

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

Limitation on Peanuts:

- GEN-PRO PRO-HEX is rainfast 8 hours after application.

Restrictions on Peanuts:

- **DO NOT** apply more than 7.25 oz of GEN-PRO PRO-HEX per acre (0.13 lbs ai) per application.
- **DO NOT** apply more than a total of 21.75 oz of GEN-PRO PRO-HEX (0.38 lbs ai) per acre per year.
- **DO NOT** retreat in less than 1 week
- **DO NOT** make more than 2 applications of GEN-PRO PRO-HEX in less than 6 weeks.
- Following the initial application of 7.25 oz per acre (0.13 lbs ai), **DO NOT** make more than 2 subsequent applications of 7.25 oz of GEN-PRO PRO-HEX per acre per year (0.13 lbs ai), or more than 4 applications of 3.6 oz (0.06 lbs ai) of GEN-PRO PRO-HEX per acre per year.

- **DO NOT** treat within 25 days before harvest.
- **DO NOT** graze or feed livestock treated crops.
- **DO NOT** apply GEN-PRO PRO-HEX on peanuts by air.
- **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 GEN-PRO PRO-HEX, **DO NOT** plant any crop other than peanuts for 30 days following the last application.

SWEET CHERRIES:

GEN-PRO PRO-HEX can be used as a production management tool on sweet cherries to suppress vegetative growth i.e. shoot growth reduction, which can reduce or delay the need for pruning. GEN-PRO PRO-HEX does not affect vegetative growth the year following application.

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

Apply GEN-PRO PRO-HEX to sweet cherries according to the rates directed in **Table 6**. Make the first application of GEN-PRO PRO-HEX in the spring when shoots have 1-3" of new growth. If additional vegetative growth control is needed, make subsequent applications at 1 to 4 week intervals, before or immediately following signs of shoot regrowth.

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 sweet cherry orchards in locations with a long growing season or on high vigor trees and/or trees with light fruit load, 3-5 applications per year may be required.

Table 6. Application Rates for Vegetative Growth Control in Sweet Cherries

Tree Vigor	Application Rate per Acre	Restrictions
High Vigor Trees	8-20 oz (0.14-0.34 lbs ai)	<ul style="list-style-type: none"> • DO NOT apply more than 20 oz/A (0.34 lbs ai) within any 14-day interval. • DO NOT apply more than 40 oz/A (0.63 lbs ai) per year.
Medium Vigor Trees	8-12 oz (CA only) (0.14-0.21 lbs ai) 6-12 oz (all other states) (0.10-0.21 lbs ai)	<ul style="list-style-type: none"> • DO NOT apply more than 12 oz/A (0.75 lbs ai) within any 14-day interval. • DO NOT apply more than 30 oz/A (1.88 lbs ai) per year.
Low Vigor Trees	Not applicable	<ul style="list-style-type: none"> • DO NOT apply GEN-PRO PRO-HEX to low vigor trees.

Ground Application: Apply GEN-PRO PRO-HEX to actively growing trees using calibrated ground equipment. GEN-PRO PRO-HEX may be applied using either dilute or concentrate spray equipment as long as sufficient spray coverage is achieved. To achieve good coverage, apply GEN-PRO PRO-HEX in a sufficient spray volume per acre utilizing proper spray pressure, nozzles, nozzle spacing and tractor speed.

Aerial Application (all approved states except California): Apply GEN-PRO PRO-HEX 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 tree canopy. Vegetative growth control will be limited to those areas of the canopy that receive spray coverage.

Post-Harvest Applications to Control Vegetative Growth in Sweet Cherries (all approved states except California):

Flushes of vegetative growth can occur in fruit trees that are harvested when temperatures and day length are still favorable for vegetative growth to occur. This can result in undesirable shoot growth and waste of resources for the trees. To reduce this growth, apply GEN-PRO PRO-HEX to the trees after commercial harvest is complete. Once vegetative growth begins, 1-3 applications of GEN-PRO PRO-HEX may be applied at 1-4 week intervals. Follow the application rates described in Table 6 above based on the vigor of trees being treated. Exclude post-harvest applications of GEN-PRO PRO-HEX from the total ounces of product that may be applied to cherry trees in the current growing season.

Limitation on Sweet Cherries:

- GEN-PRO PRO-HEX is rainfast 8 hours after application.

Restrictions on Sweet Cherries:

- **DO NOT** apply more than 40 oz of GEN-PRO PRO-HEX (0.69 lbs ai) per acre per year as outlined in the **Application Rates for Vegetative Growth Control in Sweet Cherries** table in this label.

- **DO NOT** apply more than a total of 20 oz of GEN-PRO PRO-HEX (0.34 lbs ai) per acre in any 14-day interval.
- **DO NOT** apply more than 20 oz of GEN-PRO PRO-HEX (0.34 lbs ai) per acre per application.
- **DO NOT** retreat in less than 1 week.
- **DO NOT** make more than 5 applications of 8 oz of GEN-PRO PRO-HEX (0.14 lbs ai) per acre per year or more than 1 application of 20 ounces of GEN-PRO PRO-HEX (0.34 lbs ai) per acre per year for High Vigor Trees.
- **DO NOT** make more than 5 applications of 6 oz of GEN-PRO PRO-HEX (0.11 lbs ai) per acre per year or more than 1 application of 12 oz of GEN-PRO PRO-HEX (0.21 lbs ai) per acre per year for Medium Vigor Trees.
- **DO NOT** apply within 20 days before harvest.
- **DO NOT** use GEN-PRO PRO-HEX on tart cherries.
- **DO NOT** apply to crops that show injury (leaf phytotoxicity) produced by any other prior pesticide applications because this injury can be enhanced or prolonged. Refer to Tank Mixing Information for additional tank mixing instructions and precautions.
- **DO NOT** apply GEN-PRO PRO-HEX on low vigor trees.
- **DO NOT** begin post-harvest applications until the cherry fruit harvest is completed in the trees to be treated.

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. 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 or reconditioning, if available, or puncture or 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.

WARRANTY DISCLAIMER AND LIMITATION OF LIABILITY

Genesis Agri-Products, Inc. warrants that this Product conforms to the specifications on this label. To the extent consistent with applicable law, Genesis Agri-Products, Inc. makes no other warranties and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for a particular purpose. No agent of Genesis Agri-Products, Inc. or any other person is authorized to make any representation or warranty beyond those contained herein.

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PRO-HEX



**Plant growth regulator for use on apples, grass grown
for seed*, peanuts*, pears*, and sweet cherries**

*Not for use in California

Active Ingredient: Prohexadione-calcium**

[calcium 3-oxido-5-oxo-4-propionylcyclohex-3-enecarboxylate] 27.5%

Other Ingredients: 72.5%

Total: 100.0%

**Equivalent to 0.275 pounds of active ingredient per pound of product

Net Contents: 5 lb (2.27kg)

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID

IF SWALLOWED	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have a person sip a glass of water if able to swallow.• DO NOT induce vomiting unless told to by a poison control center or doctor.• DO NOT give anything to an unconscious person
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.
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 eye.• Call a poison control center or doctor for treatment advice.

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.

**See inside panel for First Aid, Precautionary, Storage and
Disposal Statements, and Directions for Use**

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