



PLANT GROWTH
REGULATOR

CutDown™

Plant Growth Regulator for Turfgrass and Trees

ACTIVE INGREDIENT

Paclobutrazol: ((±)-(R*,R*)-β-[4-chlorophenyl) methyl]-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol): 22.3%

OTHER INGREDIENTS:..... 77.7%

TOTAL.....100.0%

CutDown™ contains 2 lbs. active ingredient per gallon.

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 person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the 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 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. |
| IF INHALED | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. • Call a poison control center or doctor for further 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 **1-888-875-1724 for emergency medical treatment information.**

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE)

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, or viton
- Shoes plus socks

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

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately, if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

Failure to follow directions and precautions on this label may result in plant injury or poor disease control.

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. Read all label directions carefully before use.

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), notification to workers, 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 such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, or viton
- Shoes plus socks

GENERAL INFORMATION

CutDown is a systemic plant growth regulator that slows vegetative growth by inhibiting gibberellin biosynthesis for use on turfgrass and trees. For turf, when CutDown is applied as directed, vertical growth of turf will be slowed within 3-10 days, resulting in reduced mowing frequency for a 6- to 8- week period. Following CutDown applications, turf will gradually undergo increased greening and density, which may persist up to 12 weeks. For trees, CutDown reduces the above ground vegetative growth and changes specific morphological characteristics of the tree plant. CutDown is most effective when applied to the soil near the base of the tree either by soil injection or with basal soil drench.

TURF

CutDown, a specialty plant growth regulator that slows vertical grass growth and reduces mowing for up to two (2) months after application. The frequency of mowing can be reduced by up to 50% during the period of effective retardation. Use of CutDown on fine turf should be accompanied by moderate-to-high fertility to maintain turfgrass appearance and reduce discoloration.

USE DIRECTIONS

| Turf | Application Rate (Product amount / a.i.- lbs per acre) | Application(s) May Result |
|--|---|--|
| St Augustine, Bermuda & similar warm season grasses | 0.5 lbs. a.i. 32 fl. oz prod/A (Sandy soil) 0.75 lbs a.i. 48 fl. oz prod/A (Clay soil) | Reduced mowing for 6-8 weeks on established hybrid bermudagrass, bent grass and perennial ryegrass fairways, tees and roughs and on St. Augustinegrass and Kentucky bluegrass/perennial ryegrass turf. Reduce potential for scalping and increase turf density and tighter-knit of all turfgrass areas. |
| Bluegrass, Rye, Fescue, Bent & similar cool season grasses (except putting greens) | 0.25 to 0.50 lbs a.i. 16 -32 fl oz prod/A Reduce by 50% if <i>Poa annua</i> is a major turfgrass population | Suppression of <i>Poa annua</i> by reducing its growth and its compatibility, leading to selective control after prolonged use. |
| Bentgrass Putting Greens & Overseeded Bermuda | 0.10 to 0.25 lbs a.i. 6.4 -16 fl oz prod/A | |

Apply CutDown with standard pressurized application equipment with by-pass or mechanical agitation using 50 mesh strainer to turf in sufficient amount of water (minimum 1 gal water /1,000 sq ft.= 43.5 gals/A) to ensure spray coverage uniformly to turf and to avoid skipping and/or overlapping.

For best results, use 2 to 5 gals water /1,000 sq ft. and apply 0.25 inch of water within 24 hours after application to remove product from foliage and onto soil surface.

CutDown can be used any time when established hybrid bermudagrass and St. Augustinegrass are green, actively growing and have recovered from dormancy after winter.

CutDown can be applied in spring after green-up and after turf has been mowed once or twice. Apply at least 1 month before onset of high air temperatures. In late summer/early fall, apply at least 1 month before anticipated first killing frost.

Apply anytime after overseeded turf has established itself successfully. Do not apply after March 15th to avoid delay in Bermudagrass green-up.

Maintain moderate soil moisture conditions before and after each application to achieve best plant growth retardation effect.

A repeat application of CutDown within the same growing season may be made 8 weeks apart for growth regulation & 4 to 6 weeks apart for color, quality enhancement after the initial application. Do not make more than 3 applications per calendar year. Do not apply more than 4 quarts per acre per year (2 lbs. a.i./A).

CutDown will not prevent seedhead production if used alone. A tank mixture for a spray program using a seed head control agent (Embark®) is required when seedhead visibility is a problem. If Embark is used for *Poa annua* seedhead control, apply CutDown at least 14 days after the Embark application.

Weed, Insect and Diseases:

If crabgrass or other annual grassy weeds have been a problem in the past, an application of an appropriate preemergence weed control product should be made before the use of CutDown. Space applications of CutDown and preemergence product at least 4 weeks apart.

Broadleaf weeds are not significantly affected by CutDown. To control the growth of weeds, treat with an appropriate herbicide when weeds are actively growing. Carefully follow label directions.

If a weed, disease, or insect problem occurs after application of CutDown, apply control product at the recommended rate. CutDown is compatible with most existing control products. A compatibility test should be conducted with product(s) with which you do not have prior experience.

Regulator response and Turf cultivar

Excessive irrigation and/or nitrogen fertilization may shorten period of growth regulation. Regulator response will vary somewhat according to turf variety. For St. Augustinegrass, Bitter Blue will be the most responsive and Floratam the least responsive.

HYBRID BERMUDAGRASS

| Sensitivity/Activity | Cultivar | Period of Growth Regulation | Period of Color Response |
|----------------------|------------------|-----------------------------|--------------------------|
| Medium/Good | Tifway I, II | 5 - 6 weeks | 6 - 8 weeks |
| High/Excellent | Tifgreen, Ormond | 6 - 8 weeks | 8 - 10 weeks |

ST. AUGUSTINEGRASS

| Sensitivity/Activity | Cultivar | Period of Growth Regulation | Period of Color Response |
|----------------------|-----------------------------------|-----------------------------|--------------------------|
| Low/Moderate | Floratam, Florawlawn | 4 - 6 weeks | 5 - 8 weeks |
| Medium/Good | Floratine, Raleigh, Texas, Common | 6 - 7 weeks | 7 - 8 weeks |
| High/Excellent | Bitter Blue, Seville | 7 - 8 weeks | 8 - 10 weeks |

GENERAL PRECAUTIONS

Not for use on bermudagrass putting greens except for winter overseeding enhancement use.

Not for use on athletic fields under heavy traffic where maximum growth potential of turf is desired.

Not for use on shrubs, flowers, fruits, or vegetable plants (applications to turf areas under trees will not affect/harm trees).

Do not use during periods of extreme dry or cold weather conditions, or during heavy insect or disease activity.

Do not apply product when soil is already saturated. Heavy rainfall or irrigation in the treated areas may cause active ingredient to move laterally on slopes and collect in low areas. These areas may undergo more severe growth control for a longer period of time.

Do not use on areas containing greater than 70% *Poa annua*, since discoloration of *Poa* may be unacceptable.

Delay treatment of newly-sodded or sprigged turf until grass has knitted down and rooted firmly.

Delay sprigging for at least 4 weeks and sodding at least 2 weeks after application is made.

Withhold application on large turf areas that have been thinned from winter drainage, disease, or insects until desired fill-in is achieved.

Assure that dosage rates are measured accurately since rates greater than those recommended may cause undesirable turf growth control and may discolor areas temporarily.

Do not mow treated grass for at least three days following application.

Do not use on areas to be cultivated for food or food crops or to be resown with grasses within two years of treatment.

Do not apply more than 4 qts. per acre per year (2 lbs. a.i./A).

Do not graze treated areas or harvest for forage or hay.

Do not apply this product through any type of irrigation equipment.

TREES

CutDown as tree growth regulator is a xylem mobile plant growth regulator that slows vegetative growth by inhibiting gibberellin biosynthesis. CutDown reduces vegetative growth thereby reducing the volume of woody growth that must be removed from trees when trimming occurs and may extend the trimming cycle. CutDown is equally effective when applied as a basal soil drench or by soil injection.

CutDown can be used on listed trees found in areas such as utility rights-of-way, urban environments, residential areas and other non-crop areas.

Symptoms of Growth Regulation

CutDown demonstrates little or no phloem mobility. Activity occurs following root uptake and xylem translocation throughout the tree canopy. Symptoms of growth regulation may not be visible for up to 18 months following application of CutDown. Initial effects of CutDown may be observed as intense greening of foliage with no resulting phytotoxicity. At the time when normal vegetative growth extension should occur, trees treated with CutDown will exhibit shortened internodes which may be somewhat thickened. Smaller leaf size and enhanced flowering may also be observed in some species.

USE DIRECTIONS

Application Timing

Applications can be made throughout the year, weather permitting, except when soil is frozen or saturated with water.

Note: CutDown is absorbed by plant roots and translocated to the growing tissues in response to evaporative water loss (transpiration). If applications are made after fall leaf drop, uptake of CutDown will not occur until development of new leaves in the spring and resumption of transpiration.

Mixing Directions

Mix 317 mL (10.7 fl oz) of CutDown with water to make one gallon of diluted mixture. One gallon of CutDown will make 12 gallons of diluted mixture. To improve the handling characteristics of the diluted mixture, the addition of a suspension aid is recommended such as, nonionic and organosilicone surfactants.

Follow all label directions and precautions on the product label of the suspension aid.

Application Methods

CutDown may be applied as a basal drench or by soil injection. Treat only trees that are well established in their final location. Treatment of trees less than 4 inches in diameter is not recommended.

Basal Drench

Apply the required dose [total ml required for the application rate and tree size (DBH)] uniformly around the base of the tree at the point of contact between the soil and the tree trunk (Figure 1). The diluted mixture of CutDown may be carefully poured around the tree or an applicator which provides a controlled rate of flow may be used. If there is potential for rainfall or irrigation to move surface applied product to non-target plants, apply CutDown diluted mixture to the bottom of a shallow furrow around the base of the tree. After applying, refill the furrow with untreated soil.

Soil Injection

The diluted mixture of CutDown should be injected approximately 6 inches deep. Use soil injection equipment capable of delivery at 100 to 200 psi. Injection orifices should be oriented to release the diluted product horizontally at the point of injection. The required dose should be divided evenly among injection sites spaced as uniformly as possible around the tree trunk. The injection sites should be positioned to release CutDown diluted mixture as close as possible to the point of contact between soil and unthickened bark beneath the soil so that the active ingredient may be readily absorbed by the tree (Figure 2). Injection sites should also be located next to buttress roots (Figure 2). For trees less than 6 inches DHB, use at least 4 evenly spaced injection sites per tree.

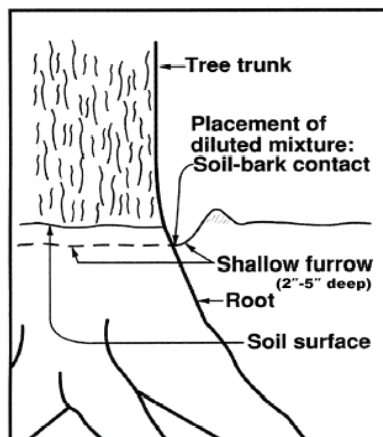


Figure 1. Placement CutDown as basal drench

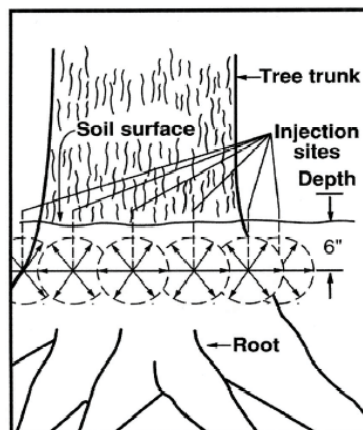


Figure 2. Placement of CutDown as a soil injected treatment.

APPLICATION RATE

| Application Rate Ranges for Diluted Mixture of CutDown for Treatment of Various Tree Species ² | | | | |
|--|--|---|---|--|
| 50 to 100 mL (1 to 2 grams a.i.) per inch DBH | 100 to 150 mL (2 to 3 grams a.i.) per inch DBH | | 150 to 200 mL (3 to 4 grams a.i.) per inch DBH | |
| Australian Pine Dogwood Redbud Sweetgum | Basswood Beech Boxelder Buckeye Catalpa Elm(s) Hickory Horse Chestnut | Linden Locust, Honey Maple Mountain Ash Olive, Russian Sassafras Walnut | Alder Ash Aspen Birch Bradford Pear Cedar, Red Cherry, Black Cottonwood Eucalyptus Hackberry | Locust, Black Magnolia Mulberry Oak Pines Poplar Redwood Sycamore Willow |

²For acidic soils (low pH), soils with high organic matter content or soils with high clay content, use the higher rate, not to exceed 4 grams a.i. per inch DBH.

| Dia. of Tree at Breast Height (DBH) (inches) | Amount of CutDown Diluted Mixture Required for Specific Application Rates and Tree Sizes | | | |
|---|---|------------------------|------------------------|------------------------|
| | 50 mL per inch DBH | 100 mL per inch DBH | 150 mL per inch DBH | 200 mL per inch DBH |
| | Total mL required | Total mL required | Total mL required | Total mL required |
| 4 | 200 | 400 | 600 | 800 |
| 5 | 250 | 500 | 750 | 1000 |
| 6 | 300 | 600 | 900 | 1200 |
| 7 | 350 | 700 | 1050 | 1400 |
| 8 | 400 | 800 | 1200 | 1600 |
| 9 | 450 | 900 | 1350 | 1800 |
| 10 | 500 | 1000 | 1500 | 2000 |
| 12 | 600 | 1200 | 1800 | 2400 |
| 14 | 700 | 1400 | 2100 | 2800 |
| 16 | 800 | 1600 | 2400 | 3200 |
| 18 | 900 | 1800 | 2700 | 3600 |
| 20 | 1000 | 2000 | 3000 | 4000 |
| 22 | 1100 | 2200 | 3300 | 4400 |
| 24 | 1200 | 2400 | 3600 | 4800 |
| 26 | 1300 | 2600 | 3900 | 5200 |
| 28 | 1400 | 2800 | 4200 | 5600 |
| 30 | 1500 | 3000 | 4500 | 6000 |
| 32 | 1600 | 3200 | 4800 | 6400 |
| 34 | 1700 | 3400 | 5100 | 6800 |
| 36 | 1800 | 3600 | 5400 | 7200 |

GENERAL PRECAUTIONS

- Apply at recommended rates and follow safety procedures.
- Trees not used for food production that are not specifically listed on this label may be treated if all other label directions are followed.
- Trees which are severely stressed due to moisture, temperature, low soil fertility, or exhibit mechanical or chemical injury should not be treated.
- Do not reapply CutDown until symptoms from previous applications begin to subside.
- Basal drench and soil injection application of CutDown may result in localized, temporary discoloration of turfgrass immediately adjacent to the treatment site.
- Avoid basal drench applications on slopes or other areas where CutDown or treated soil may be washed away from the base of the tree by rainfall or irrigation.
- Treatment of trees bordered by shrubs and/or herbaceous ornamentals may cause these plants to be affected if their roots extend into the treatment zone.
- Do not treat sugar maple trees or any other trees that are or could be tapped for sugar.
- Do not treat nut or fruit trees that will be harvested within one year.

Chemigation: Do not apply this product through any type of irrigation system.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

PESTICIDE STORAGE: Keep container closed when not in use. Do not store near food or feed. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by 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 DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

LIMITED WARRANTY AND DISCLAIMER

Phoenix Environmental Care LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below.

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such use or the results to be obtained if not used in accordance with printed directions and established safe practice. To the fullest extent permitted by law, buyer's exclusive remedy and manufacturer's or seller's exclusive liability for any and all claims, losses, damages or injuries resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort or otherwise shall be limited, at the manufacturer's option to replacement of, or the repayment of the purchase price for, the quantity of product with respect to which damages are claimed.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Phoenix Environmental Care LLC or the seller. All such risks shall be assumed by buyer.

Terms and Conditions of Use

If terms of the Limited Warranty & Disclaimer and Inherent Risks of Use are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer and Inherent Risks of Use.

CutDown™ is a trademark of Phoenix Environmental Care, LLC

Embark® is a trademark of PBI/Gordon Corp

(Made In China)

CPC 88674
1020-01-6/07/07