

228-635

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

SEP 4 2009

Ms Lizbeth Rea  
Nufarm Americas, Inc  
150 Harvester Drive, Suite 200  
Burr Ridge, IL 60527

Subject: Notification(s) for Label Revisions under PRN 98-10, and PRN 2007-4  
Storage & Disposal and Other Changes: Warranty / Disclaimer and Limitations of  
Liability Statements, Primary Brand Name "Nufarm T-Pac Pro MEC Plant  
Growth Regulator" and Alternate Brand Name "LESCO RegiMax PGR Plant  
Growth Regulator"

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under  
Pesticide Registration Notice (PRN) 2007-4 and 98-10 dated July 15, 2009 for:

**EPA Registration 228-635 Nufarm T-Pac Pro MEC Plant Growth  
Regulator (Primary Brand Name)**

The Registration Division (RD) has conducted a review of this request for applicability  
under PRN 2007-4 and 98-10 and finds that the label change(s) requested falls within the  
scope of PRN-2007-4 and 98-10. The label has been date-stamped "Notification" and will be  
placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot  
number, or other code identifying the batch of the pesticide distributed and sold be placed on  
nonrefillable containers. The code may appear either on the label (and can be added by non-  
notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Banza  
Djapao of my staff at 703-305-7269.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)

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United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 228-635	2. EPA Product Manager Joanne Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) T-Pac E-Pro MEC Plant Growth Regulator	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Nufarm Americas, Inc. 150 Harvester Drive, Ste. 200 Burr Ridge, IL 60527  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____  Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**NOTIFICATION**

**SEP - 4 2009**

### Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of a primary brand name (Nufarm T-Pac Pro MEC Plant Growth Regulator), addition of an alternate brand name (LESCO RegiMax PGR Plant Growth Regulator) and minor label changes per PRN 98-10 and storage and disposal changes per PRN 2007-4. This notification is consistent with the provisions of PRN 98-10, PRN 2007-4 and EPA regulations at 40 CFR 152.46, 156.10, 156.140, 156.144, 156.146, and 156.156 and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PRN 98-10, PRN 2007-4 and 40 CFR 152.46, 156.10, 156.140, 156.144, 156.146, and 156.156 this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 FIFRA.

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 2 x 1 gal; 2 x 2.5 gal		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product		<input checked="" type="checkbox"/> Lithograph Paper glued Stenciled		<input type="checkbox"/> Other _____	

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Lizbeth Rea	Title Regulatory Manager	Telephone No. (include Area Code) 919/655-0701
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Manager	
4. Typed Name Lizbeth Rea	5. Date 7/15/2009	

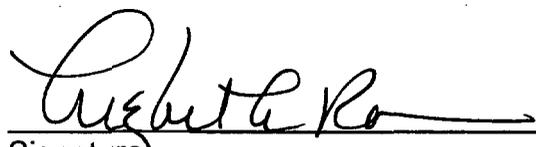
# Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL		
EPA Registration #	Date Submitted to EPA	Electronic file name
000228-00635	July 17, 2009	000228-00635.20090715.EXFRNotification

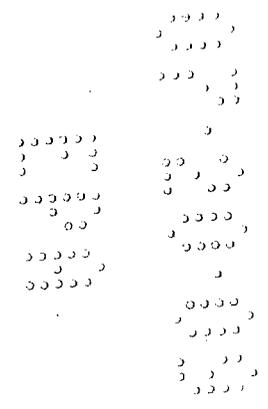
I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

  
 \_\_\_\_\_  
 Signature

07-17-2009  
 Date

Lizabeth Rea  
 Name (typed)

Product Registration Manager  
 Title





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# Nufarm T-Pac E-Pro MEC Plant Growth Regulator FOR TURF GROWTH MANAGEMENT

A microemulsion concentrate for managing growth, improving quality and stress tolerance, and edging of warm- and cool- season turfgrasses

**ACTIVE INGREDIENT:**

Trinexapac-ethyl:.....11.3%

**OTHER INGREDIENTS:**.....88.7%

**TOTAL:**.....100.0%

**NOTIFICATION**

**KEEP OUT OF REACH OF CHILDREN  
CAUTION/PRECAUCION**

**SEP - 4 2009**

FIRST AID	
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
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 1-800-424-9300 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
If a large amount has been ingested, lavage stomach. An aqueous suspension of activated charcoal can be given to absorb remaining toxicant. Treat symptomatically.	

See inside label booklet for additional **FIRST AID** and **PRECAUTIONARY STATEMENTS**

EPA Reg. No. 79676-24228-635

EPA Est. No. \_\_\_\_\_

**Manufactured for:**

Etigra™ Nufarm Americas Inc.  
501 Cascade Pointe Lane, Suite 103150 Harvester Drive  
Gary, NC 27513 Burr Ridge, IL 60527  
www.etigra.com

Nufarm T-Pac E-Pro MEC Plant Growth Regulator contains trinexapac-ethyl the active ingredient

**Net Contents:**

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION/PRECAUCION**

Harmful if absorbed through skin, swallowed or inhaled. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing.

**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 C 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 nitrile, butyl, neoprene, or barrier laminate)
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering Control Statements**

When handlers use closed systems or enclosed cabs 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:

- 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.

**FIRST AID**

<b><u>If on skin or clothing:</u></b>	<ul style="list-style-type: none"> <li>• <u>Take off contaminated clothing.</u></li> <li>• <u>Rinse skin immediately with plenty of water for 15-20 minutes.</u></li> <li>• <u>Call a poison control center or doctor for treatment advice.</u></li> </ul>
<b><u>If in eyes:</u></b>	<ul style="list-style-type: none"> <li>• <u>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</u></li> <li>• <u>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</u></li> <li>• <u>Call a poison control center or doctor for treatment advice.</u></li> </ul>
<b><u>If swallowed:</u></b>	<ul style="list-style-type: none"> <li>• <u>Call a poison control center or doctor immediately for treatment advice.</u></li> <li>• <u>Have person sip a glass of water if able to swallow.</u></li> <li>• <u>Do not induce vomiting unless told to do so by a poison control center or doctor.</u></li> <li>• <u>Do not give anything by mouth to an unconscious person.</u></li> </ul>
<b><u>If inhaled:</u></b>	<ul style="list-style-type: none"> <li>• <u>Move person to fresh air.</u></li> <li>• <u>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.</u></li> <li>• <u>Call a poison control center or doctor for further treatment advice.</u></li> </ul>

**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 1-800-424-9300 for emergency medical treatment.

information.

**NOTE TO PHYSICIAN**

If a large amount has been ingested, lavage stomach. An aqueous suspension of activated charcoal can be given to absorb remaining toxicant. Treat symptomatically.

**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 washwater. Do not apply when weather conditions favor drift from treated areas.

**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.

Observe all precautions and limitations on this label and on the labels of each product used in tank mixture with this product.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN UNEVEN GROWTH REDUCTION OR SEVERELY STUNTED TURF.

**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.

The restricted-entry interval (REI) for this product is 0 days.

**Do not enter treated areas without footwear until sprays have dried.**

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to product agricultural plants on farms, forests, nurseries, or greenhouses.

**Do not enter treated areas without footwear until sprays have dried.**

**GENERAL INFORMATION**

~~T-Pac E-Pro MEC Plant Growth Regulator~~ This product is not registered for use in the commercial production of plants in the state of Arizona, such as sod farms.

~~T-Pac E-Pro MEC Plant Growth Regulator~~ This product is a microemulsion concentrate (MEC) for management of the growth of warm- and cold-season turfgrasses, reducing the frequency of mowing and the amount of grass clippings generated. Applications of ~~T-Pac E-Pro MEC Plant Growth Regulator~~ this product also frequently result in increased turf density, increased color, and increased turf quality. Apply this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ to turfgrass areas such as residential and commercial lawns, golf courses, sod farms, sports fields, cemeteries and other similar areas that are well-maintained. ~~T-Pac E-Pro MEC Plant Growth Regulator~~ This product is useful in the management of difficult-to-mow areas and can be used to minimize the need for edging turfgrass along sidewalks, curbs, parking lots, driveways, flower beds, fences and around posts, storage sheds, and trees.

~~T-Pac E-Pro MEC Plant Growth Regulator~~ This product is absorbed by foliar uptake and is rainfast after one hour. Watering-in is not necessary for activation. Environmental conditions, management, and

cultural practices that affect turf growth and vigor will influence the response of the turf to ~~T-Pac E-Pro MEC Plant Growth Regulator~~ applications of this product. Fertility level, moisture availability, plant vigor, height and frequency of mowing, etc. have all been shown to influence the activity of this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~. Full growth regulation by this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ begins at about 3-5 days after application.

**Notice To User:** Plant tolerances to this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ have been found to be acceptable for the grasses listed on this label; however, due to the large number of species and cultivars of grasses it is impossible to test every one for tolerance to this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~. Neither the manufacturer nor the seller has determined whether or not this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ can be used safely on grasses not specified on this label and professional users should first determine if ~~T-Pac E-Pro MEC Plant Growth Regulator~~ it can be safely applied prior to commercial use by testing on a small scale by applying the lower ~~recommended~~ specified rate for the turf setting (lawn, fairway, etc.) and evaluating for phytotoxicity and growth inhibition prior to widespread use.

### USE PRECAUTIONS

- Do NOT apply this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ through any type of irrigation system.
- Do NOT graze treated areas or feed treated clippings to livestock.
- Quality turf ~~a~~ Areas treated with this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ should continue to receive regular maintenance practices, including irrigation; fertilization; and weed, disease, and insect control when necessary ~~and as recommended for quality turf~~.
- Because some herbicides can injure turf, test tank mixes with this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ should be tested on a small scale before widespread use.
- ~~T-Pac E-Pro MEC Plant Growth Regulator~~ may cause temporary yellowing is sometimes a result of applications of this product but that usually disappears approximately one week after application. To minimize yellowing and to enhance the green color of turf, apply readily available nitrogen at a rate of 0.2-0.5 lb. of actual nitrogen per 1,000 sq. ft. If desired, ~~recommended~~ specified rates of iron per 1,000 sq. ft. can also be used.

### APPLICATION INSTRUCTIONS

Excessive turf growth during spring flushes or as a result of fertilization ~~may require higher rates of this product~~ T-Pac E-Pro MEC Plant Growth Regulator (up to 50% greater) to provide an adequate length of control.

For extended growth suppression (up to 8 weeks) when temporary discoloration can be tolerated, apply a maximum of twice the recommended specified ~~T-Pac E-Pro MEC Plant Growth Regulator~~ product rate from the Application Rate Table ~~may be applied~~.

~~T-Pac E-Pro MEC Plant Growth Regulator~~ Reduce product use rates ~~may need to be reduced~~ up to 50% for turfgrass grown under conditions of low fertility, compaction, or other factors, which stress the turf.

**Multiple applications of this product** ~~T-Pac E-Pro MEC Plant Growth Regulator~~ can be made each growing season, but do not exceed a total of 7.0 fl. oz./1,000 sq. ft. (305 fl. oz./A; 19.0 pts./A) per year.

#### Mowing

This product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ generally provides greater suppression when turfgrasses are maintained at lower mowing heights and the application rates in this label have been selected for typical mowing heights; be sure to adjust the application rate based on the actual mowing conditions under which this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ will be applied. To minimize possible turf injury, apply this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ at least 4 hours before mowing or at least 1 hour after mowing.

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### Application Timing

Apply ~~this product T-Pac E-Pro MEC Plant Growth Regulator~~ to actively-growing turf. Use a lower rate of this product T-Pac E-Pro MEC Plant Growth Regulator should be used if turf is going into dormancy because of high or low temperatures or lack of moisture.

As soon as the turf resumes growth or if more suppression is desired, make repeat applications of this product T-Pac E-Pro MEC Plant Growth Regulator may be made but do NOT apply more than 7.0 fl. oz/1,000sq. ft. per year.

### Equipment

~~T-Pac E-Pro MEC Plant Growth Regulator may be applied~~ Apply this product using backpack sprayers, hand sprayers, boom sprayers, and with spraygun application devices. Be sure to clean the spray equipment thoroughly before use and make sure the sprayer is calibrated and capable of accurate and uniform application. Rinse sprayer with clean water after use and dispose of rinsate in an approved manner.

### MIXING AND APPLICATION INSTRUCTIONS

~~This product T-Pac E-Pro MEC Plant Growth Regulator~~ mixes completely with water (does not contain any petroleum solvents). and may be tank mixed ~~Tank mix this product~~ with many commonly-used pesticides and liquid fertilizers. Prepare no more mixture than is necessary for the immediate operation in sufficient carrier (for example 0.5-4.0 gals. of water per 1,000 sq. ft.) to provide uniform and thorough coverage.

Once ~~this product T-Pac E-Pro MEC Plant Growth Regulator~~ is uniformly mixed, no further agitation is required when the product is used alone, but agitation may be required is needed for tank mixes. If using ~~this product T-Pac E-Pro MEC Plant Growth Regulator~~ in a tank mixture, be sure to observe all directions for use, sites, use rate dilution ratios, precautions, and limitations, which appear on the tank-mix product's label(s). Do not exceed any label use rate and follow the most restrictive label precautions and limitations and do not mix ~~this product T-Pac E-Pro MEC Plant Growth Regulator~~ with any product which prohibits such mixing.

#### Backpack and Hand Sprayers (0.5-4.0 gal. capacity)

Add all of the required water to the mix tank followed by the appropriate amount of ~~this product T-Pac E-Pro MEC Plant Growth Regulator~~. Close the sprayer and vigorously shake. Begin application.

#### Boom and Hand Gun Sprayers

~~This product T-Pac E-Pro MEC Plant Growth Regulator Alone:~~ Add all the required amount of water to the spray tank. Then, while agitating, add ~~this product T-Pac E-Pro MEC Plant Growth Regulator~~.

~~This product T-Pac E-Pro MEC Plant Growth Regulator in Tank Mixtures:~~ When mixing ~~this product T-Pac E-Pro MEC Plant Growth Regulator~~ with other carrier and / or tank mix pesticide products, add the products to the spray tank using the following procedure:

1. Always check the compatibility of the tank mix using a jar test with proportionate amounts of ~~this product T-Pac E-Pro MEC Plant Growth Regulator~~, other products to be used, and the water before mixing in the spray tank. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately ½ hour. If the mixture balls-up or forms flakes, sludges, gels, oily films or layers, or precipitates, it is not compatible and do not use the combination in a tank mix.
2. Fill tank at least ½ full of water.
3. Maintain sufficient agitation during filling to keep the tank mix uniformly suspended.
4. Add all products packaged in water-soluble bags first. Allow the packages to dissolve and the contents to completely disperse into the mix water. Then add water-dispersible granules (WG formulations) while maintaining agitation in the mix tank. Next, add wettable powders (WP formulations). Allow the products to disperse completely before other products are added.
5. Add emulsifiable concentrates (EC).
6. Add flowable liquids (FL) or suspension concentrates (SC).

7. Add this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~
8. Add spray adjuvants and spray markers. Use surfactants approved for application to turf. Check surfactant label before use.
9. Add the remainder of the water.
10. Do not leave tank mix combinations in the spray tank for prolonged periods without agitation. Mix and apply all of the spray solution on the same day.

**Application Near and Around Monuments and Hardscape Materials**

At normal dilution rates, this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ will not stain brass, bronze, concrete, marble, granite, or other types of stone. Prior to using this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ around other materials, test on a small scale basis first.

**Turf Pre-Stress Conditioning**

Multiple ~~T-Pac E-Pro MEC Plant Growth Regulator~~ product applications, in conjunction with cultural practices such as fertilization, irrigation, drainage and mowing height will delay the onset of stress, improve stress survival, and enhance turfs recovery from stress. Apply this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ to healthy, actively growing turf before the onset of stress and continue to apply this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ throughout the growing season as long as the turf remains healthy. NOTE: Do NOT apply more than 7.0 fl. oz/ 1,000 sq. ft. per year.

When turf top growth slows, energy is redirected to below-ground plant parts, and root and rhizome production increases resulting in root-mass that is often greater in ~~T-Pac E-Pro MEC Plant Growth Regulator~~ product-treated turf than in similar, untreated turf.

Research indicates that this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ may also enhance the performance of fungicides. Monthly applications of this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ at the label rate or biweekly application at 1/2 the label rate may strengthen the turfgrass to help it resist disease. Additionally, if mowing is less frequent, and leaf material removal is reduced, contact and systemic products will remain at effective concentrations on or in the turf longer.

Multiple ~~T-Pac E-Pro MEC Plant Growth Regulator~~ product applications will result in smaller, more compact turfgrass and reduced leaf area, resulting in reduced transpiration, water use and improved drought tolerance. Increased turf density will also reduce moisture loss from soil evaporation, and additional soil moisture will be available due to increased root depth and mass. This product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ may also enhance cold and heat tolerance by increasing carbohydrate levels.

**POA ANNUA CONVERSION/RENOVATION**

As part of an overseeding / renovation program allowing better germination and seedling growth of more desirable turf, ~~T-Pac E-Pro MEC Plant Growth Regulator~~ may be applied apply this product to existing turf infested with stands of *Poa annua*. By combining this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ with appropriate cultural practices that help to ensure the vigor and growth of new seedlings, fewer clippings and reduced maintenance traffic on new seedlings will result. Additionally, seed germination is not affected because this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ is absorbed foliarly. NOTE: Aggressive application rates of ~~T-Pac E-Pro MEC Plant Growth Regulator~~ may result in temporary initial discoloration.

Apply this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ 1-5 days before seeding and before verticutting, scalping, spiking or other similar operations. The following spring, apply the recommended specified upper end rate of this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ for the turf type and setting listed in the Application Rate Table. Actual conversion success will also depend on growing conditions, fertilization, rainfall, and other agronomic and environmental conditions.

**BERMUDAGRASS OVERSEEDING**

Establishment of cool-season turfgrasses can be enhanced by applying this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ to bermudagrass. By combining this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ with appropriate cultural practices that help to ensure the vigor and growth of new seedlings, fewer clippings and reduced maintenance traffic on new seedlings will result. Additionally, seed germination is not affected because this product ~~T-Pac E-Pro MEC Plant Growth Regulator~~ is absorbed

foliarly. NOTE: Aggressive application rates of T-Pac E-Pro MEC Plant Growth Regulator may result in temporary initial discoloration.

Apply this product T-Pac E-Pro MEC Plant Growth Regulator to the bermudagrass 1-5 days before seeding or before verticutting, scalping, spiking, or other similar operations. For maintenance applications, see the Application Rate Table. Use normal seeding rates for your area and turf setting (lawn, fairway, etc.). Actual overseeding results will also depend on growing conditions, fertilization, rainfall, and other agronomic and environmental conditions.

**APPLICATION WITH TURF MARKING PAINT**

When applied before or with marking agents, this product T-Pac E-Pro MEC Plant Growth Regulator can extend the duration of marking visibility. When combining with latex-based marking agents, mix this product T-Pac E-Pro MEC Plant Growth Regulator with water first and refer to the marking agent's products label for further instructions.

To treat approximately 1,000 sq. ft. of line surface area, apply this product T-Pac E-Pro MEC Plant Growth Regulator at 1 oz./gal of marking paint mix. Refer to the T-Pac E-Pro MEC Plant Growth Regulator Product plus Tank Mixtures section of this label for additional instructions.

**Recommended T-Pac E-Pro MEC Plant Growth Regulator Application Rates<sup>1</sup>**

NOTE: The rates recommended-specified below should provide 50% suppression of turf growth with minimal yellowing for 4-weeks under good growing conditions.

Turf Type	Residential and Commercial turf <sup>2</sup>		Golf Course Fairways (cut at 1/2" or less)		Golf Course Greens		Edging/Banding <sup>3</sup>	
	fl oz/ 1000 sq ft	fl oz/A	fl oz/ 1000 sq ft	fl oz/A	fl oz/ 1000 sq ft	fl oz/A	fl oz/ 1000 sq ft	fl oz/A
<b>Cool Season</b>								
Bentgrass	0.75	33	0.25	11	0.125	6	1.0	44
Fescue, red	0.75	33					1.0	44
Fescue, tall (Ky-31)	1.0	44					1.0	44
Fescue, tall (Turf Types)	0.75	33					1.0	44
Kentucky Bluegrass	0.60	26	0.25	11			0.75	33
Mixture (Bentgrass/Poa annua)			0.25 <sup>4</sup>	11	0.125	7		
Mixture (K. Bluegrass/ Fescue/Ryegrass)	0.75	33						
Mixture (K. Bluegrass/ Ryegrass/ Poa annua)			0.50 <sup>5</sup>	22				
Ryegrass, Annual	1.0	44					1.0	44
Ryegrass, Perennial	1.0	44	0.50	22			1.0	44
<b>Warm Season</b>								
Bahiagrass	1.0	44					1-2	44-88
Bermudagrass <sup>6</sup>								
Bermudagrass Common	0.75	33	0.25	11			1-2	44-88
Bermudagrass Other Hybrids	0.25	11	0.20	9			0.50-0.75	22-33
Bermudagrass, Tidwarf	0.20	9	0.20	9	0.062	3	0.50-0.75	22-33
Bermudagrass, Tifgreen (328)	0.25	11	0.20	9	0.125	6	0.75	33
Bermudagrass, Tifway (419)	0.38	16	0.25	11			0.75	33
Buffalograss	1.0	44					1.0	44
Carpetgrass	0.25-0.40	11-18					0.50	22
Centipedegrass	0.50	22					1.0	44
Kikuyugrass	0.30-0.50	13-22	0.3	13			1.0	44
St. Augustinegrass	0.10-0.15	4.50-6.50					0.40-0.80	16-36
St. Augustinegrass Texas Common	0.10	4.5					0.20	9
Zoysiagrass	0.25	11	0.125	6			0.75	33

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in a cool, dry place and avoid excess heat. Do not store below 0°F. If crystals form, store above 70°F, shaking periodically until crystals are dissolved.

**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:**

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 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

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