

WARNING

KEEP OUT OF REACH OF CHILDREN



Primo Maxx® II
Turf growth regulator

syngenta®

Active Ingredient:

PRIMO MAXX® II contains 116.39 g/L trinexapac-ethyl in the form of a soluble concentrate

A plant growth regulator to manage the growth of fine and amenity turf in golf courses, sports fields, parks and other turfgrass areas.

Net Contents: 500 mL – 10L

*Approved pursuant to the HSNO Act 1996, Approval Code HSR101664.
See www.epa.govt.nz for approval controls*

Syngenta Crop Protection Limited
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PLEASE READ THE LABEL COMPLETELY BEFORE USE

This product MUST NOT be used for any purpose or in any manner contrary to the controls and conditions of this registration.

**GHS classifications:**

Flammable liquid Category 4

Acute inhalation toxicity Category 4

Skin sensitisation category 1B

Hazardous to the aquatic environment chronic category 3

WARNING:

Combustible liquid

Harmful if inhaled

May cause an allergic skin reaction

Harmful to aquatic life with long lasting effects

PRECAUTIONS

Store in original container, tightly closed, away from foodstuffs.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

In case of fire use fine-water spray or foam. During a fire this product may release smoke and hazardous decomposition products. When fighting a major fire wear an air-supplied respirator.

Use only outdoors or in a well-ventilated area.

Wear chemical resistant gloves, protective clothing and eye protection during handling and application.

Avoid contact with skin or eyes and inhalation of spray mist.

DO NOT eat, drink or smoke while using.

Remove protective clothing and wash hands and face thoroughly after handling and application and before meals.

Wash protective clothing after use.

Contaminated clothing should not be allowed out of the workplace.

Apply with well maintained and calibrated spray equipment.

Application and storage should be as described in the Management of Agrichemicals NZS8409.

DO NOT carry on a passenger service vehicle.

Avoid contamination of any water supply with chemical or empty container. DO NOT apply into or onto water.

Container disposal: Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

Product disposal: Dispose of this product only by using according to the label, or at an approved landfill or other approved facility. For additional information refer to EPA Notice: Hazardous Substances (Disposal) Notice 2017.

FIRST AID

Get medical advice or attention if you feel unwell.

For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor. If medical advice is needed, have product container or label at hand.

IF ON SKIN: Remove contaminated clothing and wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON Centre or doctor if you feel unwell.

SPILLAGE

Collect spillage. Wear suitable protective clothing. Prevent the product or spilled material from entering water bodies. Absorb liquid spills with inert material such as earth or sand and place in waste containers. Wash area with water and absorb with further inert material. Dispose of safely.

GENERAL INFORMATION

PRIMO MAXX® II for turf growth management reduces the frequency of mowing and the amount of grass clippings by reducing the growth of warm- and cool-season turfgrasses. Other benefits, such as increased turf density, increased colour, and increased turf quality, are frequently observed after PRIMO MAXX® II applications.

PRIMO MAXX® II can be applied to well-maintained, quality turfgrass areas, such as residential and commercial lawns, golf courses, sod farms, sports fields, cemeteries, and similar areas. PRIMO MAXX® II is useful in the management of difficult-to-mow areas and can be used to minimize the need for edging turf grass along sidewalks, curbs, parking lots, driveways, flower beds, fences and around posts, storage sheds, and trees. PRIMO MAXX® II should be applied to actively growing turf, at least 6 hours before or after mowing. Good mowing management leading up to application is required to achieve a good quality turf surface and to obtain the best results from PRIMO MAXX® II.

PRIMO MAXX® II reaches the growing point by crown and foliar uptake and is rainfast from rainfall or irrigation after one hour. Watering-in is not necessary for activation.

DIRECTIONS FOR USE

RESTRAINTS

DO NOT use on food/feed crops.

DO NOT apply to turf recovering from wear, renovation or turf affected by disease, waterlogging or other stresses.

DO NOT use where growth regulatory effects are likely following the application of a fungicide or any other material.

DO NOT apply to turf going into or coming out of dormancy.

Turf Growth Management

Situation	Grasses	Rate		Critical Comments
		/ha	/100 m ²	
Golf course and bowling greens	Bent Grass	450 mL to 1 L	4.5 to 10 mL	Apply PRIMO MAXX® II at least 6 hours before or after mowing and when turf is actively growing. Use the lower rates on turf with moderate growth rates where a lower level of growth regulation is required, or when used in a program. Apply rates towards the highest end of the rate range when growth is vigorous or when longer periods of 4 to 6 weeks regulation are required. Application made to turf growing under cool conditions or to turf with low nutrient levels or where growth rates are low may result in discolouration. Well maintained turf surfaces are those which receive at least weekly mowing and good levels of water and fertility are maintained. Refer to EPA restrictions and application section for detailed information.
	Bent Grass / <i>Poa annua</i> mixture	500 mL	5 mL	
	Hybrid Couch Tifdwarf	225 mL	2.3 mL	
	Hybrid Couch Tifgreen (328)	450 mL	4.5 mL	
Golf course fairways	Bent Grass	800 mL	8 mL	
	Kentucky Bluegrass			
	Bentgrass/ <i>Poa annua</i> mixture			
	Kentucky Bluegrass/Rye grass/ <i>Poa annua</i> mixture	1.6 L	16 mL	
	Perennial rye grass	1.6L to 3L	16-30 mL	
	Common Couch	0.8 to 1.6 L	8 to 16 mL	
	Hybrid Couch including Tifdwarf, Tifgreen (328) and Tifway (419)	650 to 800 mL	6.5 to 8 mL	
	Kikuyu	1.6 to 4 L	16 to 40 mL	
	Zoysia	450 mL	4.5 mL	

Situation	Grasses	Rate		Critical Comments
		/ha	/100 m ²	
Golf course roughs, well maintained Lawns and general turf surfaces	Bent Grass	2.4 L	24 mL	
	Kentucky Blue grass/ Fescue/ Perennial Ryegrass Mixtures			
	Tall Fescue			
	Kentucky Bluegrass	2 L	20 mL	
	Annual & Perennial Ryegrasses	3.2 L	32 mL	
	Buffalo Grass	1 to 2 L	10 to 20 mL	
	Common Couch,			
	Hybrid Couch			
	Kikuyu	1.6 to 6L	16 to 60 mL	
	Zoysia	800 mL	8 mL	
Bunker facing, path and garden edging, footpath and curbside edging, fence lines, around trees	Bent Grass, Couch, Perennial Ryegrass	4 to 6 L	40 to 60 mL	Apply PRIMO MAXX® II at least 6 hours before or after mowing and when turf is actively growing. On difficult to mow areas apply PRIMO MAXX® II to actively growing turf and mow 3 to 4 days after application. Apply in a strip approximately 25 to 50 cm wide. Use the lower rates of PRIMO MAXX® II around bunker edges and the higher rates in the other situations. Application made to turf growing under cool conditions or to turf with low nutrient levels or where growth rates are low may result in discolouration. Refer to EPA restrictions and application section for detailed information.
	Fescue			
	Annual & Perennial Ryegrass			
	Kentucky Bluegrass	2.4L	24 mL	
	Buffalo Grass	4 L	40 mL	
	Couch			
	Kikuyu	6 to 8 L	60 to 80 mL	
	Zoysia	2.4 L	24 mL	

EPA RESTRICTIONS

Application Rate

- When a maximum application rate for this substance of 8 L PRIMO MAXX® II/ha (equivalent to 0.9311 kg trinexapac-ethyl/ha) is used, the maximum application frequency is nine (9) applications per year, with a minimum interval between applications of 28 days.
- When a maximum application rate for this substance of 6 L PRIMO MAXX® II/ha (equivalent to 0.6983 kg trinexapac-ethyl/ha) is used, the maximum application frequency is 18 applications per year, with a minimum interval between applications of 14 days.

Spray drift

Take all reasonable steps to ensure that PRIMO MAXX® II does NOT cause any adverse effects to the environment beyond the application area.

Application Method

The substance must be applied by ground-based application methods only.

The substance must not be applied when wind speeds are less than 3 km/h or more than 20 km/h as measured at the application site.

The substance must not be applied if there are surface temperature inversion conditions present at the application site during the time of application.

Growth Regulation

The recommended use rates are designed to give approximately a 20 to 50% reduction in clippings over a 2 to 6 week period. Full growth regulation by PRIMO MAXX® II begins about 3 to 5 days after application. In practice the amount of growth regulation achieved will vary between situations due to environmental conditions and management practices. To some extent, therefore, application rates will need to be adjusted to match growing conditions, management practices and the amount of growth regulation required by the turf manager. Repeat applications can be made as soon as turf resumes growth or more suppression is required.

Areas treated with PRIMO MAXX® II should continue to receive regular maintenance practices, including irrigation, fertilisation, and weed, disease and insect control when necessary, as recommended for quality turf.

Winter Grass (*Poa annua*) Management

Different grasses vary in their sensitivity to PRIMO MAXX® II. Since *Poa annua* is more sensitive to PRIMO MAXX® II than Bent Grass, PRIMO MAXX® II can be used to reduce the competitiveness of *Poa annua* in Bent Grass golf greens. PRIMO MAXX® II can be integrated into existing *Poa annua* control programs. Low rates of PRIMO MAXX® II (that provide growth suppression of *Poa annua*, but not Bent Grass) applied during peak growth periods may enable a slow transition in the golf green sward composition away from *Poa annua* and towards a higher percentage of Bent Grass.

Couch Overseeding

An application of PRIMO MAXX® II to couch will enhance the establishment of cool season turf grasses. PRIMO MAXX® II is foliar absorbed, so germination and seedling growth is not affected. Apply PRIMO MAXX® II before verticutting, scalping, spiking or other similar operations to the couch. Apply PRIMO MAXX® II 1 to 5 days before seeding.

TURF PRE-STRESS CONDITIONING

Multiple PRIMO MAXX® II applications along with cultural practices such as fertilization, irrigation, drainage, mowing height etc will delay the onset of stress, improve stress survival, and enhance turf's recovery from stress. Apply PRIMO MAXX® II to healthy, actively growing turf before the onset of stress and continue to apply PRIMO MAXX® II throughout the growing season as long as the turf remains healthy. Turfgrass root-mass is often greater in PRIMO MAXX® II-treated turf than in similarly, untreated turf. As turf top growth slows, energy is redirected to below-ground plants parts, and root and rhizome production increases. In addition, if mowing is less frequent, and leaf materials removal is reduced, contact and systemic applications stay at effective concentrations on or in the turf longer. Multiple applications of PRIMO MAXX® II will reduce water use and improve drought tolerance. PRIMO MAXX® II applications results in smaller more compact turfgrass, and leaf area is reduced for transpiration. Increased turf density reduces moisture loss from soil evaporation, and additional soil moisture is available due to increased root depth and mass. PRIMO MAXX® II also may increase carbohydrate levels which have been shown to enhance heat and cold tolerance.

APPLICATION NEAR AND AROUND MONUMENTS AND HARDSCAPE MATERIALS

PRIMO MAXX® II at normal dilution rates, will not stain brass, bronze, concrete, marble, granite or other types of stone. Before using PRIMO MAXX® II around other materials, test on a small scale basis first.

APPLICATION WITH TURF MAKING PAINT

PRIMO MAXX® II can extend the duration of marking visibility when applied before or with marking paints. Mix PRIMO MAXX® II with water first when combining with latex-based marking paints. Refer to the marking agent's product label for further instructions. Apply PRIMO MAXX® II at 32 mL/ 100 m² of line surface area.

Mixing

PRIMO MAXX® II is a soluble concentrate (SL) that mixes completely with water. It may be tank mixed with many commonly used fungicides and liquid fertilizers. Add the required quantity of PRIMO MAXX® II directly to a spray tank containing 1/2 of the required spray volume. Add the rest of the water and ensure the mix is thoroughly agitated before and during application.

EQUIPMENT

Ensure even application in order to achieve even growth reduction. Avoid overlapping sprays.

Application Volume: Apply in 200 to 500 L/ha water, using suitable flat fan nozzles. Application volume should be adequate to ensure thorough and even coverage of the turf leaves and penetration to the crowns. In higher cut turf (≥ 15 mm) a significant spray shielding effect can occur, impacting negatively on spray penetration and even coverage at low application volumes.

Knapsack: It is important to apply the correct quantity of PRIMO MAXX® II to a known area of turf. Apply between 2 and 10 L water/100 m² turf. Preferably use flat fan nozzles and ensure even coverage is achieved.

Golf Courses and Bowling Greens: Ensure product placement as uniformly as possible onto leaves and into crowns. Ideal application volume should be 350 to 500 L/ha. For best results use medium to coarse droplet size with Syngenta XC025 or XC04 nozzles or equivalent nozzles.

All Other Turf Areas: Ensure product placement as uniformly as possible onto leaves and into crowns. Ideal application volume should be 200 to 500 L/ha. For best results use medium to coarse droplet size with Syngenta XC025 or XC04 nozzles or equivalent nozzles. Boom height should not exceed 1.0 m above the ground.

Compatibility

For Couch, Hybrid Couch and Kikuyu turf grasses only

PRIMO MAXX® II is compatible with some formulations of products containing the following chemicals: 2,4-D amine, bromoxynil, MCPA/bromoxynil/dicamba, MCPA ester/bromoxynil, MCPA ester/bromoxynil/dicamba, MCPP/2,4-D amine/dicamba or MCPP/dicamba. However, some transient discolouration of the treated turf may occur after applications of a tank mix. For the treatment of broadleaf weeds in turf with herbicides other than those indicated above, it is recommended to apply PRIMO MAXX® II and the broadleaf weed herbicides separately, allowing at least days between an application of PRIMO MAXX II and the broadleaf weed herbicide.

Re-entry Period

DO NOT enter treated areas without protective clothing until spray has dried.

DO NOT allow the public to enter treated areas until spray has dried.

STORAGE

Store in a cool, dry, well-ventilated place, avoiding temperatures below 5°C and above 35°C. See Safety Data Sheet for additional storage information. Stores containing quantities of 1,000 litres or more require signage and secondary containment. Stores with quantities of 500 litres or more require fire extinguishers.

SAFETY DATA SHEET

If additional hazard information is required refer to the Safety Data Sheet. For a copy visit our website at www.syngentaturf.com.au or www.syngenta.co.nz

DISCLAIMER

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Syngenta's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Syngenta shall have no liability.

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Batch No.	
Date of Manufacture	

BARCODE

UN 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(TRINEXAPAC-ETHYL) MARINE POLLUTANT
PACKING GROUP III, HAZCHEM 3Z
CONTAIN SPILLAGE





In a transport emergency dial 111, Police or Fire Brigade.

For specialist advice in an emergency only, call 0800 734 607 (24 hours).