

# WARNING

## Keep out of reach of children



syngenta®

**Active Ingredient:**

PRIMO MAXX contains 120 g/litre trinexapac-ethyl in the form of a micro-emulsifiable concentrate.

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

**Net Contents: 1 to 20 litres**

*Approved pursuant to the HSNO Act 1996, Approval Code HSR100371*

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

**Syngenta Crop Protection Limited**

*Tower 2, Level 7, 110 Symonds Street, Auckland*

TM

**PLEASE READ THE LABEL COMPLETELY BEFORE USE**  
**This product MUST NOT be used for any purpose or in any manner**  
**contrary to the controls of this approval.**



**HSNO Classifications 3.1D, 6.1E, 6.4A, 9.1D**

**WARNING**

Combustible liquid.  
May be harmful if swallowed  
Causes serious eye irritation  
Harmful to aquatic organisms.

**PRECAUTIONS**

Store in original container, tightly closed, away from foodstuffs.  
Keep away from sources of ignition. 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.  
When mixing or applying wear protective clothing, including overalls, impervious gloves, face shield and footwear.  
DO NOT eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work.  
If medical advice is needed have container or label at hand.  
IF SWALLOWED call a poison centre or doctor if you feel unwell. Rinse mouth.  
IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
Apply with well maintained and calibrated spray equipment.  
DO NOT re-enter site until spray has dried.  
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.

**Container disposal:** Ensure the container is empty. Triple rinse the container and add rinsate to the spray tank. Recycle empty container through Agrecovery (0800247326, [www.agrecovery.co.nz](http://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, at an approved landfill or other approved facility.

**FIRST AID**

If swallowed, DO NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Obtain medical attention. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. DO NOT scrub the skin. If splashed in the eyes, wash out immediately with water. If inhaled, move the victim to fresh air immediately.

**SPILLAGE**

Wear suitable protective clothing including face shield, impervious gloves and boots. 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 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 color, and increased turf quality, are frequently observed after PRIMO MAXX applications.

PRIMO MAXX 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 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 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.

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

## DIRECTIONS FOR USE

DO NOT apply to turf recovering from wear, renovation or turf affected by disease, water-logging 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
		per ha	per 100 m <sup>2</sup>	
Golf courses and bowling greens	Bent Grass	450 mL to 1L	4.5 to 10 mL	Apply PRIMO MAXX 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 up to 6 weeks regulation is required.
	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	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. <b>Refer to Application section for detailed information.</b>
	Kentucky Bluegrass			
	Bentgrass / <i>Poa annua</i> mixture			
	Kentucky Bluegrass / Ryegrass / <i>Poa annua</i> mixture	1.6 L	16 mL	
	Perennial Ryegrass	1.6 to 3 L	16 to 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	

<b>Golf course roughs, well maintained lawns and general turf surfaces</b>	Bent Grass	2.4 L	24 mL	
	Kentucky Bluegrass / Fescue / 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 6 L	16 to 60 mL	
	Zoysia	800 mL	8 mL	
<b>Bunker facing, path and garden edging, footpath and curbside edging, fence lines, around trees</b>	Bent Grass, Couch, Perennial Ryegrass	4 to 6 L	40 to 60 mL	Apply PRIMO MAXX at least 6 hours before or after mowing and when turf is actively growing. On difficult to mow areas apply PRIMO MAXX 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 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.
	Fescue			
	Annual & Perennial Ryegrass			
	Kentucky Bluegrass	2.4 L	24 mL	
	Buffalo Grass	4 L	40 mL	
	Couch			
	Kikuyu	6 to 8 L	60 to 80 mL	
Zoysia	2.4 L	24 mL		

## 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. 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.

## WINTER GRASS (*POA ANNUA*) MANAGEMENT

Different grasses vary in their sensitivity to PRIMO MAXX. Since *Poa annua* is more sensitive to PRIMO MAXX than Bent Grass, PRIMO MAXX can be used to reduce the competitiveness of *Poa annua* in Bent Grass golf greens. PRIMO MAXX can be integrated into existing *Poa annua* control programs. Low rates of PRIMO MAXX (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 to couch will enhance the establishment of cool season turf grasses. PRIMO MAXX is foliar absorbed, so germination and seedling growth is not affected.

Apply PRIMO MAXX before verticutting, scalping, spiking or other similar operations to the couch. Apply PRIMO MAXX 1 to 5 days before seeding.

### **TURF PRE-STRESS CONDITIONING**

Multiple PRIMO MAXX 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 to healthy, actively growing turf before the onset of stress and continue to apply PRIMO MAXX throughout the growing season as long as the turf remains healthy. Turfgrass root-mass is often greater in PRIMO MAXX-treated turf than in similar, untreated turf. As turf top growth slows, energy is redirected to below-ground plant parts, and root and rhizome production increases. Research has demonstrated that PRIMO MAXX may also enhance the performance of fungicides. Monthly applications of PRIMO MAXX at the label rate or biweekly applications at ½ the label rate strengthen the turfgrass to help it resist disease. In addition, if mowing is less frequent, and leaf material removal is reduced, contact and systemic products stay at effective concentrations on or in the turf longer. Multiple applications of PRIMO MAXX will reduce water use and improve drought tolerance. PRIMO MAXX applications result 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 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, at normal dilution rates, will not stain brass, bronze, concrete, marble, granite, or other types of stone. Before using PRIMO MAXX around other materials, test on a small scale basis first.

### **APPLICATION WITH TURF MARKING PAINT**

PRIMO MAXX can extend the duration of marking visibility when applied before or with marking paints. Mix PRIMO MAXX with water first when combining with latex-based marking paints. Refer to the marking agent's product label for further instructions. Apply PRIMO MAXX at 32 mL /100m<sup>2</sup> of line surface area.

### **MIXING**

PRIMO MAXX is a micro emulsion concentrate (ME) with minimal odour as the product does not contain petroleum solvents. PRIMO MAXX mixes completely with water and may be tank mixed with many commonly used fungicides and liquid fertilizers. Add the required quantity of PRIMO MAXX directly to a spray tank containing ⅔ of the required spray volume. Add the rest of the water and ensure the mix is thoroughly agitated before application.

### **EQUIPMENT**

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

**Application Volume:** Apply in 100 to 500 L/ha water, using suitable flat fan nozzles (refer to Critical Comments for specific nozzle recommendations). 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 to a known area of turf. Apply between 2 and 10 L water/100 m<sup>2</sup> turf. Preferably use flat fan nozzles and ensure even coverage is achieved.

**Golf Courses and Bowling Greens:** Ensure product placement as uniformly onto leaves and into crowns as possible. Ideal application volume should be 350-500 L/ha. For best results use medium [XR Teejet® (11004 or 11005)] to course [Turbo Teejet® or AIXR Teejet® (11004 or 11005)] nozzles, at 5km/h and 3 bar pressure. Boom height should not exceed 50 cm above the ground.

**All Other Turf Areas:** Ensure product placement as uniformly onto leaves and into crowns as possible. Ideal application volume should be 200-500 L/ha. For best results use medium [XR Teejet\* (11004 or 11008)] to course [Turbo Teejet\* or AIXR Teejet\* (11004 or 11008)] nozzles, at 8 km/h and 3 bar pressure. Boom height should not exceed 50 cm above the ground.

**COMPATIBILITY*****For Couch, Hybrid Couch and Kikuyu turf grasses only***

PRIMO MAXX 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 application 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 and the broadleaf weed herbicides separately, allowing at least 10 days between an application of PRIMO MAXX 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 place, avoiding temperatures below 5°C and above 35°C. See Safety Data Sheet for additional storage information. Stores containing quantities of 10,000 litres or more require signage and 1000 litres or more require secondary containment. Stores with quantities of 500 litres or more require fire extinguishers.

**SAFETY DATA SHEET**

If additional hazard or safety information is required, refer to the Safety Data Sheet. For a copy visit our website at [www.syngenta.co.nz](http://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

**\*Trademark**

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Distributed by the proprietor Syngenta Crop Protection Limited, Tower 2, Level 7, 110 Symonds Street, Auckland.

Bar code

Batch No:	
Date of Manufacture:	

**UN 3082**  
**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.**  
**(trinexapac-ethyl)**  
**PACKING GROUP III, HAZCHEM 2X**  
**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)**

**AGRECOVERY LOGO**