

# MAINTAIN

A micro-emulsion formulation containing 120 g/l of trinexapac-ethyl  
A plant growth regulator for the management of grass growth in amenity grassland and managed amenity turf



## RISK AND SAFETY INFORMATION

### DANGER

Causes serious eye irritation.

May damage the unborn child. Suspected of damaging fertility.

Toxic to aquatic life with long lasting effects.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container to a licensed waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

Do not contaminate water with the product or its container (Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads)

To avoid risks to human health and the environment, comply with the instructions of use.

### IMPORTANT INFORMATION

FOR PROFESSIONAL USE AS AN HORTICULTURAL PLANT GROWTH REGULATOR

Crop	Maximum individual dose	Maximum total dose	Latest time of application
Amenity grassland, managed amenity turf	8.2 l/ha	16.0 l/ha/year	N/A

## NET CONTENTS: 5 litres

Batch number /date of manufacture: see bottle shoulder

PCS No. 05365



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## DIRECTIONS FOR USE

MAINTAIN may cause a temporary yellowing of the turf. This usually passes within a week of application. A form of readily available nitrogen (such as Headland Vertex Hi-N 34) should be applied to minimise yellowing and enhance the green colour of the turf.

The long-term effect of this product on turf density or sward composition has not been assessed. At the highest doses of 3.2 l/ha, some transient grass thinning may be seen, which is quickly outgrown.

The reduction in growth resulting from treatment with this product may favour the development of Red Thread disease.

The safety to other plants of composted mowings or mowings used for mulch has not been assessed so these uses should be avoided.

Do not use MAINTAIN on newly-sown turf.

Do not use MAINTAIN in a re-seeding programme.

Some darkening of turf may follow after treatment and some discoloration including paling or scorch may occur to Annual Meadow Grass. Care should be taken if Annual Meadow Grass forms an important part of the sward.

Do not overspray desired non-target plants either in or around the treated turf as damage may occur.

Signs of damage may appear if treated turf is suffering from stress as a result of drought, nutrient deficiency or pest or disease attack but such signs pass quite quickly. Avoid spray drift onto desired plant species.

### Notes on Application

This product is used as a management aid in amenity grassland and managed amenity turf to reduce the frequency of mowings and the amount of clippings by reducing the growth of the grass. It is suitable for use on all well-maintained turf-grass areas.

Treated grass should be adequately fertilised and not suffering from drought or other stress for best results.

The product is absorbed through the leaves of the grass and is rain-fast within 6 hours of application.

The effects of treatment will be influenced by the management and cultural practices in use. In situations where turf growth is excessive such as where high rates of fertiliser have been used or during flushes of growth, application rates of MAINTAIN may need to be increased by up to 50% to provide an adequate period of growth control (see 'Rates of Application' below).

Similarly, rates may need to be reduced by up to 50% in cases where the turf is under stress due to nutrient shortage or drought or other adverse factors.

At the recommended rates of application, MAINTAIN can be expected to reduce the fresh weight of grass clippings of up to 35% and provide a height reduction of up to 20% over a period of up to 4 weeks.

Note: This product is not a weedkiller. If control of broad-leaved weeds in the turf is necessary, this should be done *before* the application of MAINTAIN.

### Timing of Applications

Apply the product to actively growing turf. If the turf is going into dormancy due to moisture stress or in high temperatures, reduce the rate of application. Adequate soil moisture is important for best results and to avoid damage to the turf. Do not apply if rain is expected within 6 hours, or during periods of frost.

MAINTAIN will provide more suppression when turf is maintained at lower mowing heights. To minimise possible turf discoloration, apply the product 4 hours before mowing, or alternatively, mow first and apply at least 1 hour later.

Applications may be repeated when turf growth resumes or if more suppression is required up to a maximum of 16 litres of product per hectare per year. The usual management practices for maintaining high quality turf should be continued after application.

### Application Rates and Water Volumes

	Golf/bowling greens cut to 6mm or less	Fairway turf cut at <18 mm	Sports Fields/Out Fields cut at > 18 mm
<b>Bent/Fescue/ Meadowgrass Mix</b>	0.4 l/ha	1.6 l/ha	2.4 l/ha
<b>Perennial Ryegrass</b>	--	2.4 l/ha	3.2 l/ha

The above rates should provide up to 35% suppression of turf growth under good growing conditions, for 4 weeks with minimal yellowing. Where yellowing of Annual Meadow-grass is a concern, use half the above rates.

Apply in sufficient water to give uniform and thorough cover of the turfgrass (normally 200-400 litres of water/ha or equivalent).

### Application Methods

Apply with a knapsack sprayer, hand-held sprayer, horizontal boom sprayer or spray-gun. Ensure that the sprayer is cleaned from any previous use.

### Directed Application - knapsack

Spray volumes normally range from 200-300 l/ha. When using a knapsack sprayer with a total capacity of 10 litres, applying at 0.4 l/ha with a spray volume of 200 l/ha, gives a concentration of 0.2%, thus requiring 0.02 litres of MAINTAIN in 9.98 litres of water. Similarly when the required application rate is 3.2 l/ha use 0.16 litres MAINTAIN in 9.84 litres of water. A 10 litre spray volume will cover a 500 m<sup>2</sup> area using a 1m wide swath and a 1m/sec walking speed.

Charge the sprayer with half the required volume of water. Add the correct quantity of MAINTAIN to the tank. Complete the filling with the rest of the water, with agitation and apply without delay. Do not allow the spray mixture to stand without agitation. Use the mixture on the day of mixing.

Thoroughly wash all spraying equipment immediately after use.

### Operator Protection

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate or applying by hand held equipment.

### Storage and Disposal

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

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