



A guide on how to produce a fairway quality lawn at home

syngenta.

Talking Turf are the distributors of Syngenta products to the Turf and Landscape Market of Southern Africa. Shop www.talkingturf.co.za.

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From gardens to golf and a life uninterrupted by pests

We provide products based on leading chemistry in pest management for turf and landscape.

 **Banner**
Fungicide

 **Daconil Weatherstik**[®]
Fungicide

 **Headway**[®] **Maxx**
Turf fungicide

 **Heritage**
Turf fungicide

 **Heritage Maxx**[®]
Turf fungicide

 **Instrata**[®]
Turf fungicide

 **Meridian**[®]
Insecticide

 **Primo Maxx**[®]
Plant growth regulator

 **Pennant Magnum**[®]
Herbicide

 **Qualibra**[®]
Wetting agent

 **Ryder**[®]

 **Subdue Maxx**[®]
Turf fungicide

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Introduction by Sue de Zwart



**It is time to take your home lawn to the next level.
Why not have fairway quality at home?**

This guide will give you simple steps to achieve that.

Always start with a soil analysis. Healthy, well fed plant, happy lawn.
Labserve, in Nelspruit will gladly assist you with the Talking Turf test.
We will then assist you to draw up an annual programme.

There are a few key diseases and insects which you need to target – the correct product applied at the correct time is important. This is the safe solution for you and the environment. I am always horrified at the products available off the shelf – be aware of what you are using.

Invest in a small soil temperature gauge – available from Talking Turf.
Your application timing will be based on the soil temperature. You will soon link a certain plant which flowers at a certain soil temperature to make your life easier.

I have used the Syngenta range since 1996 and I can highly recommend it.

Primo Maxx – this is the key ingredient to taking your turf to the next level!
It is a plant growth regulator – reduce your mowing, improve rooting and drought tolerance.

Qualibra - water management – reduced water usage – holding the moisture in the root zone.
Your turf health is a direct result of water management. Water early in the morning WHEN your turf needs it.
You can maintain your turf on 55 to 65% of daily evapotranspiration on a Qualibra programme.
It is best to use a simple moisture meter to allow you to make the right decision. Over-watering leads to many issues (disease, weeds, unhealthy turf) and under watering kills off your root zone – neither will provide a healthy plant.

Meridian – Insect control – after the 1st rains and again 6 weeks later.

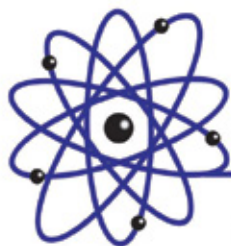
Banner and Heritage Maxx – Apply these products in Spring and Autumn to clean up your soil from harmful diseases and keep your plant healthy.

Pennant Magnum – the idea pre-emergent herbicide – it prevents the dreaded crabgrass, goose grass and poa annua germinating.

I believe in keeping maintenance simple – the Talking Turf programme is designed to take your turf to the next level.

We look forward to seeing your before and after photos!

Sue de Zwart



Labserve®

Analytical Services

Standard Leaf / Grass Clippings

R496⁰⁵
Incl. VAT

Standard Soil + B + S + OrgC%

R581⁴⁵
Incl. VAT

Potable Water For Human Consumption

R1 269⁹⁰
Incl. VAT

Irrigation Water

R1 065⁹⁰
Incl. VAT



T0467

For more information regarding
SANAS visit www.sanas.co.za

- These are only a few of our analyses. Please visit our website for more information: www.labserve.net
- Full parameter & sampling guidelines are available on request.
- Prices valid till our next annual price increase (February 2018)



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www.labserve.net · info@labserve.net · sales@labserve.net

Syngenta Products Application Timing

SYNGENTA APPLICATION TIMING CHART													
DISEASE	TIMING	FAVOURING TEMPERATURE	BANNER	DACOMIL WS	HERITAGE	HERITAGE MAXX	HEADWAY MAXX	INSTATA	SUBDUE MAXX	QUALIBRA	MERIDIAN	PENNANT MAGNUM	PRIMO MAXX
Anthracnose	Dec - Feb	25 °C and more	Propiconazole				Azoxystrobin, pyrimin-4-yl-oxo, Propiconazole	Chlorothalonil, Propiconazole, Fludioxonil					
Brown Patch	Sept - April	30 °C and more during day time, 15°C and more at night											
Bermuda Grass Decline	Late summer to early winter following periods of overcast, warm-wet weather.												
Crabgrass	Oct	13°C											
Dew Removal	May - Aug	1/4 - 1/2 rates & LDS											
Dollar Spot	Sept - April	15 °C - 30 °C (high humidity)											
Dry Spots	Sept - April	Localised Dry Spots											
Fading Out	Dec - Feb	25°C - 35°C											
Fairy Ring	May - Aug	When soil reaches 12-15°C											
Goosegrass	Nov - Dec	16°C											
Grey Leaf Spot	Aug - April	26°C - 32°C											
Large Patch	Aug - April	High Humidity											
Leaf/ Stem/ Stripe Rust	Aug - April	18°C - 30°C											
Leaf Spot /Wetling Out	Aug - Oct	4°C - 26°C											
Microdochium Patch	Jun - Aug	1° - 15 °C											
Mole Cricket	Sept/Oct/Dec/Jan	Apply Meridian after first rain / follow up 60 Days later.											
Necrotic Ring Spot	Nov - Feb	Thirries up to 27°C											
Plant Growth Regulator	Jan - Dec	Above 5°C soil temperature											
Pea Annuia	March, April	Treat in Autumn											
Powdery Mildew	Aug - Oct	15°C - 22°C											
Pythium Leaf Blight	Nov - April	20°C and more											
Pythium Root Rot	May - July	0°C - 10°C											
Red Thread	Jan - Dec	4°C - 29°C											
Rhizoctonia leaf and sheath spot	Dec - Feb	28°C - 36°C											
Seedling Damping Off	After seeding	20°C and more											
Spring Dead Spot	March, April	Treat in autumn											
Summer Patch	Nov - Jan	Soil at 18°C and air temp 29°C -day time & 21°C -at night											
Take all Patch	May - Sept	When soil reaches 4°C - 15°C											
Wheat Patch	Sept - April	25°C - 30°C											
White Grub	Sept/Oct/Dec/Jan	Apply Meridian after first rain / follow up 60 Days later.											
	BATES/HA		2t/ha	3.5-5.2 t/ha	560-1120 g/ha	3-5 t/ha	2-3 t/ha	9t/ha	1.7-3.5t	10t	1kg	1.3 t/ha	150ml/3 ha

TALKINGTURF

Foliar FEED



**APPLY MONTHLY TO ANY
GREEN GRASS TO INCREASE
PLANT HEALTH & COLOUR!**

Fertilizer Group 1

Reg no: K9545 Act 36 of 1947

N = 309.22 g.kg⁻¹ P = 1.50 g.kg⁻¹ K = 3.29 g.kg⁻¹
S = 52.61 g.kg⁻¹ Mg = 2.01 g.kg⁻¹ Fe = 61.99 g.kg⁻¹
Mn = 18.44 g.kg⁻¹ Mo = 0.1 g.kg⁻¹

STORE IN A COOL DRY PLACE

APPLICATION GUIDELINES:

- Dissolve 125 grams Talking Turf foliar in 3 litres of water.
- Do not water in.
- Apply the day after mowing for best results.
- Sit back & enjoy this easy maintenance programme!

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TRIED & TESTED ON WARM & COOL SEASON GRASSES BY SUE DE ZWART SINCE 1999

Application Guide for Lawn & Sports Fields

FOLIAR FEED APPLICATION - PRIMO MAXX - PLANT HEALTH & PLAYABILITY - INCREASED ROOTING, TILLERING, COLOUR & BALL LIE

Application Timing	Product	Rates/Ha	Comments
Sept, Oct, Nov, Dec, Jan, Feb, March, April	Primo Maxx	750ml-2 litres/Ha	Foliar application - no water - Tank mix with TT Foliar feed. KIKUYU - best to apply every 21 days when soil temp above 8°C
	TT Foliar	4-12kg/Ha	
Sept, Oct, Nov, Dec, Jan, Feb, March, April	Green Gold (Kynoch)	200kg/Ha/6 weeks	Apply to dry grass and water in until granule dissolved. Apply 3 weeks after the Primo/Foliar Feed application

PENNANT MAGNUM - PRE-EMERGENT HERBICIDE FOR KIKUYU, BERMUDA, PASPALUM, BERE A & ZOYSIA

Application Timing	Product	Rates/Ha	Comments
March & September when soil temp reaches 16° C and do a follow up application 4-6 weeks later	Pennant Magnum	2 litres/Ha	GET YOUR PENNANT MAGNUM DOWN IN TIME! PRE-EMERGENT - getting ahead of the game. Prevents germination of Goosegrass, Nutsedge, Crabgrass & poa annua. Use on Warm Season only. Water in for a few minutes - spray at 750 litres water/ha
Do a follow up application 4-6 weeks later.			
May, June, July	MAP Foliar feed	10kg/Ha	No Water
	OR - MAP	25kg/Ha	Through fertigation
Sept & March	K-Humate	20L/Ha	Product from Omnia - water for a few minutes to get to soil

INSECT CONTROL - (KIKUYU AREAS) GREENS, TEES & FAIRWAYS

Application Timing	Product	Rates/Ha	Comments
Apply after 1st rain (Oct, Nov)	Meridian	1,2kg/Ha	Control - White Grub, Ants, Black Maize Beetle, Crickets, Mole Crickets. Water in 2 hours after spraying
Apply 6-9 min water after application. Do a follow up application 60 days after 1st application. Dec/Jan See rates below.			
	Meridian	1kg/Ha	Control - White Grub, Ants, Black Maize Beetle, Crickets, Mole Crickets. Water in 2 hours after spraying
	Karate Zeon	1lt/Ha	
Apply 6-9 min water after application.			

LARGE PATCH (Rhizotonia) - Kikuyu, Bermuda

Application Timing	Product	Rates/Ha	Comments
Sept-October	Heritage Maxx Banner	500g 2 litres	Water in 3 hours after spraying
Do a follow up application where disease visible - 21-28 days later.			
Late March/April	Banner Heritage Maxx	2 litre/Ha 500g/Ha	Best mix for Large Patch - which is the prevalent disease on kikuyu in RSA. Will also cover Spring Dead Spot.
Do a follow up application 21 days after 1st application in bad areas. Water in 3 hours after application. Preventative Rates (Increase to 4 litres/ha in problem areas).			

FAIRY RING - (KIKUYU AREAS) - FULL TANK

Application Timing	Product	Rates/Ha	Comments
May (When soil temp at 12°)	Heritage Maxx Qualibra	1,12kg/Ha 10 litres/Ha	Mix in 1600 litres water and add 5-10 litres of Qualibra & water in for best results. Do a follow up application 28 days later.
KNAP SACK			
May (When soil temp at 12°)	Heritage Maxx Qualibra	11g/knapsack 100ml/knapsack	Mix 11g in 16 litres water and add 50 -100ml Qualibra. Spray the infected area and wash in. DO a follow up application 28 days later.

Please ensure that your equipment is properly calibrated and that you follow the Water guidelines.
Talking Turf do not take responsibility for damage caused during product applications.

Making good turf great, for everyone

Primo MAXX is a plant growth regulator that improves the quality of your lawn, reduces clippings and the frequency of mowing – saving you time.

Take a holiday! Apply Primo MAXX a week before you leave and you will come back after two weeks to a lawn that will not be out of control with excessive growth.

When you use Primo MAXX, you shorten your grass blades and increase the growth of your turf's roots and lateral shoots. This creates more space between shoot nodes, which gives the roots more room to grow, therefore creating root growth that is more compact. By speeding up lateral growth and slowing vertical growth, you create turf that is much stronger and healthier.

Research has shown that applying lawn care programmes that incorporate Primo MAXX from the start allows turf to better survive various types of seasonal stresses, such as plant diseases, heat, and drought.

Key Features:

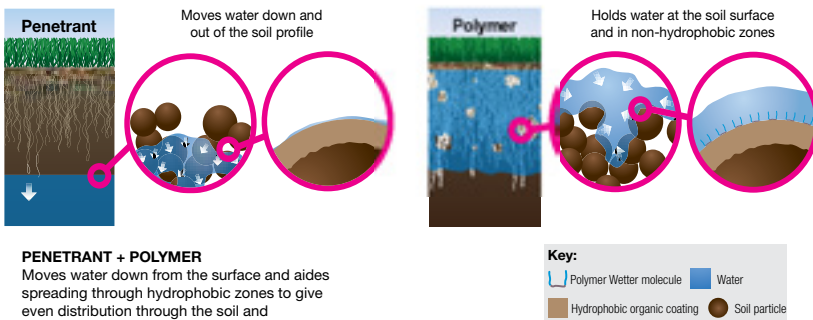
- Improved rooting
- Improved drought tolerance
- Improved colour & striping
- 50 % less clippings
- More lateral growth
- Improved turf quality



Water Efficiency - Make The Most Of Your Resources

Qualibra is a wetting agent that combines a unique and dynamic penetrant to move moisture, with a powerful polymer to hold moisture evenly throughout your soil.

This aids nutrient uptake and the efficiency of your fertiliser applications. Qualibra has been shown to encourage greater root mass, deeper roots and better root retention which in turn makes better use of water resources.



PENETRANT + POLYMER

Moves water down from the surface and aides spreading through hydrophobic zones to give even distribution through the soil and improve root to soil moisture contact

Key Features:

- Better moisture retention deep and evenly in the root zone
- Utilise available nutrients more effectively
- Optimise use of irrigation by applying more water less frequently
- Prevent damaging dry patch developing
- Reduce effects of drought
- Retain healthy root mass
- Qualibra brings benefits for turf health and surface quality whatever the weather



After the first rains insects lay their eggs... be prepared!

Meridian has been shown to be highly effective in controlling the damaging larval stage of juvenile mole crickets and white grubs.

Reducing insect pest populations in the soil can minimise risk of secondary damage from birds and other animals rooting for food sources.

Turfgrass Soil Insecticide

	Meridian [®]
White Grubs	✓
Curative Grub Control	✓
Black Maize Beetle	✓
Mole Crickets	✓ - suppression
Ants	✓
Landscape Insects	
Aphids	✓
Whiteflies	✓
Mealybugs	✓
Leafhoppers	✓
Surface Water advisory	✓
Ground Water advisory	✓
Plant uptake	40% at 24h
Current Formulation(s)	0.33G, 25WG
Watering Requirements for preventive treatments	up to 7 DAT

✗ = not labeled. **DAT** = days after treatment.
 ✓ = labeled, ✓ - suppression = suppression claim only.

APPLICATION

- ✓ **Apply Meridian after the first rains (Oct, Nov) and follow up 60 days later (Jan, Feb)**
- ✓ **When you see the adult beetles this is your final warning prior to them laying eggs**
- ✓ **Meridian increases root depth and mass whilst controlling the insects**

BANNER GETS TO WORK FASTER



Banner Fungicide controls numerous diseases on ornamentals and other landscape and nursery plantings. It is a high performance specialist turf fungicide.



≡ **FAST** uptake
into the leaf



≡ **FAST** disease
control



≡ **FAST**
movement
through the plant



≡ **LONG**
lasting results

Key Features:

- Delivers fast uptake and systematic movement – gets to work quickly and protects turf as it grows.
- Gives excellent control of Anthracnose; Brown Patch; Dollar Spot; Leaf, Stem and Stripe Rust; Leaf Spot (Melting Out); Powdery Mildew; and Spring Dead Spot.
- Has preventative, curative and eradicant activity.
- Is physically compatible with a range of products, including Heritage Maxx and Daconil Weatherstik.
- Is approved for application through boom and knapsack sprayers.

APPLICATION

- ✓ **Spring to Autumn – Apply 2lt/ha Banner + 500g/ha Heritage Maxx to clean up your soil.**
- ✓ **Knapsack: 6lt Water (Buffer pH to 6,5 before adding 20ml Banner and 5g Heritage Maxx)**
- ✓ **Apply over 100m²**

Brilliant solution for Large Patch control!

**Large patch develops on warm-season grasses.
Fairways - treat in May & early spring!**



Headway[®]Maxx
Turf fungicide

Causal Agent:

Rhizoctonia solani

Susceptible Turfgrass:

Kikuyu; seashore paspalum; zoysia grass and occasionally Bermuda grass

Symptoms:

Large Patch appears as rings or patches of blighted turfgrass that measure 12 cm to 3 m or more in diameter. Patches are brown to yellow in appearance, with a possible “orange firing” at the periphery of the patches. Small reddish-brown colored leaf spots occur on leaf sheaths, stems, and stolons. After the leaves die in the blighted area, new leaves can emerge from the surviving crowns. If the turfgrass is still green, the disease is most apparent down in the canopy, especially around the leaf sheaths as discolored/blackened lesions—when pulled lightly, these leaves detach very easily and are sometimes green above the damaged sheath.

Conditions Favoring Disease:

The symptoms of Large Patch can vary depending on the turfgrass cultivar, or climatic and atmospheric conditions, soil type, texture, and intensity of the turfgrass management. Conditions that favor this disease include: extended wet periods; high nitrogen levels; heavy soils; and dense thatch. This disease is favored by high relative humidity, as well as temperatures of 10°C to 15°C at night in late autumn or early spring. Infection is most likely when soil temperatures at a 5 – 10 cm depth decrease to 18°C. This is the period to apply preventive fungicides.

Management Tips:

- Maintain balanced fertility.
- Avoid nitrogen applications in the late fall through early spring when the pathogen is active.
- Increase the air circulation.
- Avoid over watering.
- Improve soil drainage.
- Reduce thatch.
- Treat in March and early spring.
- 2 litres/ha Headway Maxx for fairways. Do a follow-up application 21 days later.
- Water volume 750 – 1000lt /ha water.



Pre-emergent weed control

Saving you time and money

PENNANT MAGNUM Turf Herbicide delivers effective control of various broadleaf weeds and grasses through an optimised formulation (S-metolachlor). PENNANT MAGNUM has limited residual and does not affect new root development in turf production after harvesting or in sports field or golf course fairway recovery after the winter season.

Key features:

- Optimised S-metolachlor formulation with 35% more herbicidal activity
- Pre-emergent control of various annual grasses – Goosegrass, Nutsedge, Crabgrass, Poa Annua (Winter Grass) – and broadleaf weeds
- Safe to use on recovering turf
- Minimal effect on new root development when growing back Bermudagrass (Cynodon spp) or St. Augustinegrass (Stenotaphrum spp.) after harvesting and during recovery of sports fields after the winter season
- Perfect rotation partner for K1 turf herbicide group

APPLICATION

- ✓ **Apply Pennant Magnum when soil temp reaches 16° Celsius and do a follow up application 4-6 weeks later to prevent annual grasses like Goosegrass and Crabgrass.**
- ✓ **Apply to Kikuyu, Bermuda (Cynodon/Kweek) and Paspalum in March to prevent Poa Annua germinating.**
- ✓ **Flower beds – apply to your weeded flower beds to prevent germination of many weeds and annual grasses.**

RYDER - Making light work

- Great lasting colour – that can be tailored to your turf demands.
- Protection from harmful UV radiation and high light intensities.
- Rainfast in 1 hour.

WITH RYDER, BEAUTY IS MORE THAN SKIN DEEP

RYDER is the new turf pigment technology that protects turf from harmful UV rays, excessive light and provides natural looking green colour.

Light stress

Turf is highly vulnerable to light stress and hence photoinhibition. This is when light intensity is way beyond the plants ability to regulate its energy with its normal photosynthetic pathways. On a bright sunny day, light intensity can be 4x greater than the plant saturation point (the point where additional light ceases to increase the photosynthetic rate any further).

The susceptibility of turf to light stress is severely intensified when under stress. This can be heat stress, drought stress or cold stress.

Dye difference

RYDER is a high-concentration turf-specific pigment. Unlike existing water soluble turf dyes, RYDER is a formulated pigment that, once dry on the leaf, it is not washed off by rain or irrigation and is stable in light. It stays in place for longer that retains its colour and effects.

Application aid

The instant colour provided by RYDER can act as a spray pattern indicator in itself, especially at higher rates or on turf inherently paler at the time of application.



syngenta®

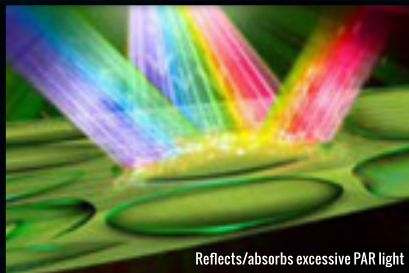
How does RYDER work?

RYDER absorbs and reflects not only damaging UV light but also will help protect against excessive light during the summer periods of overwinter cold stress.

RYDER helps protect against harmful UV light and excessive light



Reflects/absorbs UV-light



Reflects/absorbs excessive PAR light



Application advice

Use a water volume of 250-500 litres per hectare.

Greens and turf maintained at under 12mm

Apply at a rate of 0.75 to 1.5 l/ha

Turf maintained above 12mm

Apply at a rate of 1.0 to 2.0 l/ha

For superior coverage apply 0.5 - 1.0 l/ha in each of two directions.

Use higher rates for a deeper green colour, higher heights of cut and greater protection against light stress.

RYDER can be used at any time of the year but plan programmes when stressful periods are expected.

RYDER - Pigment applications on bermuda

Ryder pigment can be used many times during the year. At times, just to add some color after vertical mowing and topdressing. This will help keep your greens lean and not looking "lush"!

Ryder will work better when applied to green turf, just before going dormant. You can spray it on dormant turf, but the results will not be as good and a higher rate may be required.

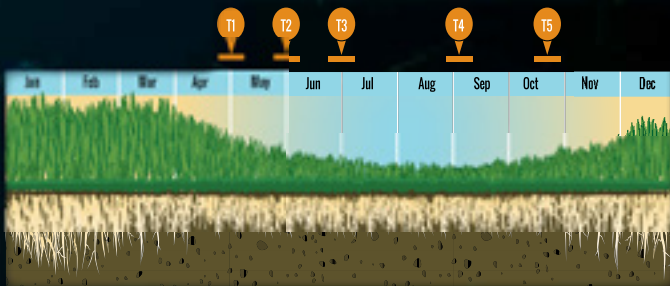
Apply Ryder twice prior to dormancy - 3-4 weeks apart. First as they go dormant and second to help break the dormancy. The green color absorbs more heat and can speed up recovery by 2-3 weeks in sunny weather. For areas that do not get as cold, spray Ryder every couple of weeks to keep the green during periods of light frost and cooler temperatures.

T1 and T2 at 2 litres/ha.

T3 at 1l/ha as you will have built colour.

T3 is after last mowing and spray in two directions (second spray at 90° to first spray) to improve coverage.

T4 and potentially T5 can increase spring recovery and break of dormancy. 1-2 litres/ha based on the colour you have.



**BREAKTHROUGH
BIO-DEGRADABLE
EFFECTIVE WATER
TREATMENT
TECHNOLOGY
NOW IN SA!**

HydroCide

Water Treatment



**A breakthrough in the treatment of
*Algae, Ecoli, Spores, Fungi and Bacteria.***



Algae, Ecoli, Bilharzia larvae control in dams, streams & reservoirs:

Surface spray 25 % of the dam at a time.
Spray at a dilution of 50:50 HydroCide to water, for example:
5 litres HydroCide & 5 litres water when algae present.



Improved fish health in dams & streams:

Surface spray dams at a dilution of 1:400 HydroCide to water:
‡ 12,5 ml HydroCide in 5 litres water
- 50 ml HydroCide in 20 litres water



Irrigation pipe line maintenance, Hydroponics, dams & streams:

Inject into the system at a dilution of 1:60 000 litres i.e. 1,65 litres/ha
per 100 000 litres or 16,5 litres per 1 million litres water.



Reservoir:

‡ metres x 1,5 metres deep = 28 274 litres water – add 470 ml HydroCide
‡ when algae is present or on a monthly basis.



Swimming pool:

- **School pool:** 25 metres x 10 metres x 1,5 metres deep = 375 000 litres –
5 litres per application – apply per month in the skimmer box of the pool.
- **Home pool:** 8 metres x 4 metres x 1 - 1,5 metres deep = 32 000 litres –
apply 500 ml per month in the skimmer box of the pool.

EUROPEAN TESTED & NRCS REGISTERED!

HydroCide is a breakthrough in the treatment of algae, spores, fungi and bacteria. The product provides a unique solution in the treatment of biologically contaminated water in ecological sensitive areas. It is registered with the NRCS as detergented disinfectant solutions of less than 0.5% have the following advantages:

- Effectively controls algae, spores, fungi and bacteria
- PH Neutral
- Non-irritant
- Non-corrosive
- Bio-degradable
- Good Wetting Effect.

Shock Treatment:

Pre-dilute 20L of HydroCide 1:10 with water and pour solution slowly into a flowing stream. Ensure there are no fish within 30m of where the water is dosed. The treatment should be made on a weekly basis for 2 weeks, every 2nd week for 2 treatments & then monthly until the water is clear. Once the water looks good – change to the maintenance treatment. Please contact us prior to doing any shock treatment in an area with a high fish population – although HydroCide is beneficial to the health of the fish the treatment is important.

Maintenance Treatment:

Apply HydroCide at 1:400 dilution with water. Spray it onto the water surface using a knapsack sprayer. Do not apply in windy conditions where drift could damage turf. If there is a blanket of algae when this treatment is being made do not treat more than 50% of the surface area per week.

Product Description:

HydroCide Water Treatment is available in 5 litre and 20 litre packs.

EUROPEAN TESTED:

EN1276 Anti Bacterial
EN1650 Anti-Fungal
NRCS REGISTERED.

Safety:

- Eyes: Wear goggles when diluting concentrate. Avoid eye contact. In case of contact, flush with water for 5 minutes. Seek medical attention.
- Skin: Wear gloves when handling the 20% concentrate. Wash with water. Concentrate may stain skin brown for 3-4 days.
- Ingestion: DO NOT INDUCE VOMITING! Give plenty of water to drink.
- Inhalation: Remove to fresh air.

NOTE: DO NOT MIX WITH ANY OTHER CHEMICALS, unless indicated by the Manufacturer. Do not mix with ammonia, and straight twin chain QAC compounds. There are no heavy metals or Benzene structures in HydroCide. DO NOT STORE IN DIRECT SUNLIGHT and store away from children and uninformed people.

Refer to HydroCide MSDS for further information.

Product Specification:

- % Stabilised Biocide: 20 – 21.00%
pH Range: 5.00 – 7.50
- Appearance: CLEAR/YELLOWISH LIQUID
- Solubility: 100% IN WATER
- In-compatibility: Certain Amides, Benzene, cyclic structures and single straight chain quaternary ammonium compounds (QAC).
- Compatible: Non-ionic, anionic, cationic and amphoteric surfactants and detergents. Alcohols, glycols and many more other non nitrogen containing compounds.
- Eco Toxicity: All the ingredients of HydroCide are biodegradable.

Toxicity:

- Solutions of less than 0.5% active non skin irritant.
- Solutions of less than 0.3% active not orally toxic.
- Solutions of less than 0.2% active non volatile.



For further information contact sales@talkingturf.co.za

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Take turf disease control to the next level

- Complete uptake by **leaf and root**
- Long lasting protection for **28 days**
- Controls **foliar and soil** diseases
- Magnificent **THIRTEEN** turf diseases on the label
- **Five-way** turf disease protection
- Exceptional easy-to-use water soluble granule formulation



Turf disease protection that stays cut, after cut, after cut...

 **HeritageMaxx**[®]
Turf fungicide

syngenta.

Fast and effective

Fusilade® II herbicide is a selective post-emergent turf and ornamental herbicide that controls both perennial and annual grass weeds in a variety of turf and landscape areas.

Extremely fast and effective, Fusilade II can be applied over-the-top or as a directed spray without damaging valuable ornamental plants/shrubs. It can also be used at reduced rates to safely remove bermudagrass from tall fescue and zoysiagrass.

Key Features

- Application flexibility – Fusilade II can be applied over-the-top in landscaped areas.
- Selective grass control that is rainfast one hour after application.
- Fusilade II moves quickly into the shoots, roots, rhizomes, stolons and growing points of treated grass weeds.
- Effective at low rates to safely remove bermudagrass from tall fescue and zoysiagrass.
-

Key Benefits


- Fusilade II eliminates the time and expense associated with hand weeding when it is applied over-the-top in landscaped areas. It can also be applied as a directed spray to minimize any potential phytotoxicity.
- Safe for use on a wide variety of ornamentals in a variety of turf and landscape situations.
- Fast acting performance = results. Fusilade II moves quickly to all growing points to stop growth and within a week there is loss of vigor, followed by yellowing and/or reddening, and the eventual death of the grassy weeds without harming ornamental plants.
- Broad-spectrum control of many annual and perennial grassy weeds.

TIP: Use Fusilade II together with Penant Magnum – it is a great combination herbicide for flower beds, killing monocots (grasses) and dicots (flower beds). Pennant is a pre-emergent – preventing seeds germinating, while Fusilade is a post-emergent – killing older grass.



Fusilade® II
Herbicide

syngenta®



Recognizing
LAWN
DISEASES
& WHAT
& TO DO

Dollar Spot

Causal Agent:

Sclerotinia homoeocarpa

Susceptible Turfgrass:

Poa Annua, Bahiagrass, Bermudagrass, Centipedegrass, Fine-leaf Fescue, Colonial Bentgrass, Creeping Bentgrass, Perennial Ryegrass, Kentucky Bluegrass, Creeping and Spreading Fescue, Kikuyu, Velvet Bentgrass, Zoysiagrass.

Symptoms:

Dollar spot causes sunken, circular patches that measure up to 5 cm in diameter on golf greens and several inches on higher mown turf. The patches turn from brown to straw colour and may eventually coalesce, forming irregularly shaped areas. Infected leaves may display small lesions that turn from yellow-green to straw colour with a reddish-brown border. The lesions can extend the full width of the leaf. Multiple lesions may occur on a single leaf blade.

Conditions Favouring Disease:

Dollar spot is favoured by temperatures between 15°C to 30°C and continuous high humidity. This disease is particularly favoured by warm days, cool nights, and intense dews. It also infects areas with low levels of nitrogen and becomes more severe in dry soils.

Integrated Turf Management Tips:

- Use an adequate level of nitrogen, particularly in the Spring and early Summer
- Mow grass at regular intervals
- Reduce thatch
- Increase the air circulation
- Irrigate turf deeply and as infrequently as possible to avoid drought stress
- Remove dew from the turf early in the day
- Convert to a turfgrass cultivar (especially for Bentgrass) that is more tolerant to dollar spot
- Apply contact and/or penetrant fungicides on a preventive basis



Dollar Spot as seen from 3 m (top) and 6 m

Approved products:

 **Banner**[®]
Fungicide

 **Daconil** **Weatherstik**[®]
Fungicide

 **Headway**[®] **Maxx**
Turf fungicide

 **Instrata**[®]
Turf fungicide

Fairy Ring

VARYING CAUSES AND SYMPTOMS

Three types of fairy ring symptoms can change the appearance and/or health of turfgrass.



TYPE I SYMPTOMS

Damaged or dead turf from drought stress.

CAUSES:

- Hydrophobic (water-repellent) thatch and soil.
- Accumulation of ammonium to toxic levels.
- Release of hydrogen cyanide or other toxins into the root zone.



TYPE II SYMPTOMS

Rings of dark green or quickly growing turf. These symptoms usually occur early in the season, and indicate that more severe Type I symptoms may follow. They are most evident in under-fertilized turf.

CAUSE:

- The release of nitrogen and other nutrients into the soil.



TYPE III SYMPTOMS

Mushrooms or other fruiting bodies produced in a ring. They are most common during periods of wet weather preceded by drought.

CAUSE:

- Mycelial mass buildup around the outer ring.

Although Type II and III symptoms are not devastating to turf, they do detract from uniformity and can affect playability.

Both warm and cool-season grasses are susceptible to fairy ring, and the disease is most damaging in the sandy soils that are preferred for putting greens. By creating optimal playing conditions for the golfer, we also create optimal growing conditions for fairy ring pathogens.

KEYS TO EFFECTIVE FAIRY RING CONTROL:

- Maintain regular, preventive applications with Heritage Maxx throughout the season.
- Initiate applications early in the season when soil temperatures reach 12°C to 15°C.
- Deliver the active ingredient to the infested zone of the soil profile.
- Apply soil surfactants regularly to maintain soil conditions and turf health.
- Preventive fungicide applications do not require tank-mixing with a soil surfactant, but curative applications generally do.
- Determine how deep fairy ring infestation is for watering-in product applications.
- 2.5 – 3.8 mm of irrigation is needed if limited to the thatch layer.
- 6.3mm of irrigation if 50-80mm deep in soil.
- Repeat applications on regular intervals to maintain consistent suppression in the soil.

Fungicides are a long-term, preventive approach, not a short-term fix.

Approved products:

 **Heritage Maxx**
Turf fungicide

 **Qualibra**
Wetting agent

 **Headway Maxx**
Turf fungicide

Pythium Root Rot (Root Dysfunction)

Causal Agent:

Pythium aphanidermatum, *Pythium aristosporum*, *Pythium graminicola*, *Pythium vanterpoolii*, other *Pythium* species

Susceptible Turfgrass:

Species grown on putting greens, such as Annual Bluegrass, Bentgrass, and Bermudagrass

Symptoms:

Pythium root rot is common on highly maintained turf, such as golf course greens. Although symptoms of *Pythium* root rot are typically non-distinctive, this disease can appear as yellow, irregularly shaped patches. The affected turfgrass is thin, off-colour, and slow growing, while the root system is stunted with reduced volume and vigour. Foliar mycelium does not occur.

Conditions Favouring Disease:

Some *Pythium* species favour temperatures between 0°C and 10°C while others thrive in temperatures between 21°C and 32°C. *Pythium* root rot occurs in areas with high soil moisture, poor drainage, and low light. It also infects locations with low mowing height and excessive wear.

Integrated Turf Management Tips:

- Increase the height of cut
- Apply optimum amounts of nitrogen, phosphorous, and potash
- Reduce mowing frequency and use lightweight mowers
- Avoid overwatering
- Apply low amounts of nitrogen in the Spring when roots are forming
- Minimise the amount of shade
- Improve the drainage of the turf
- Reduce soil compaction
- Apply penetrant fungicides on a preventive basis



Pythium Root Rot

Approved products:

 **HeritageMaxx**[®]
Turf fungicide

 **Headway**[®]**Maxx**
Turf fungicide

Yellow Patch/Cool Season Brown Patch

Causal Agent:

Rhizoctonia cerealis

Susceptible Turfgrass:

Bentgrass, Poa Annua, Perennial Ryegrass, Bermudagrass

Symptoms:

The symptoms of yellow patch (cool season brown patch) can vary depending on the grass cultivar, climatic and atmospheric conditions, soil, and intensity of the turfgrass management. This disease occurs from the Autumn through the Spring or as the warm-season grasses approach or break dormancy, generally when air temperatures average 19°–18°C. It causes rings and patches or circular patches that are yellow, light-brown, or reddish-brown in colour and that measure 12 cm to several feet in diameter. Leaf lesions rarely occur and grey “smoke rings”—thin borders around the diseased patches—sometimes occur. Damage is generally superficial, but thinning can occur during prolonged periods of wet weather in late Winter and early Spring.

Conditions Favouring Disease:

Yellow patch favours temperatures less than 15°C. It also occurs in areas that experience more than 10 hours a day of foliar wetness for several consecutive days. This disease is more severe in turfgrass with excessive thatch and high nitrogen levels.

Integrated Turf Management Tips:

- Improve soil drainage
- Use low to moderate amounts of nitrogen, moderate amounts of phosphorous, and moderate to high amounts of potash
- Increase the air circulation
- Minimise the amount of shade
- Reduce thatch
- Use contact or penetrant fungicides preventively for best results



Approved products:

 **Banner**[®]
Fungicide

 **HeritageMaxx**[®]
Turf fungicide

 **DaconilWeatherstik**[®]
Fungicide

 **Headway**[®]**Maxx**
Turf fungicide

 **Instrata**[®]
Turf fungicide

Talking Turf are the distributors of Syngenta products to the Landscape Market of Southern Africa. Shop www.talkingturf.co.za.



“We have enjoyed a long association with Talking Turf, and we could not have found a better distributor for our products in South Africa. Sue de Zwart is both knowledgeable and highly respected in the turf industry, and we are confident that she and her team will be able to supply customers with the sort of service they deserve.”

- Rod Burke, Syngenta

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