

# Turf Nu's

June Edition 2011

**NEW!**

## Tribute® Selective Herbicide

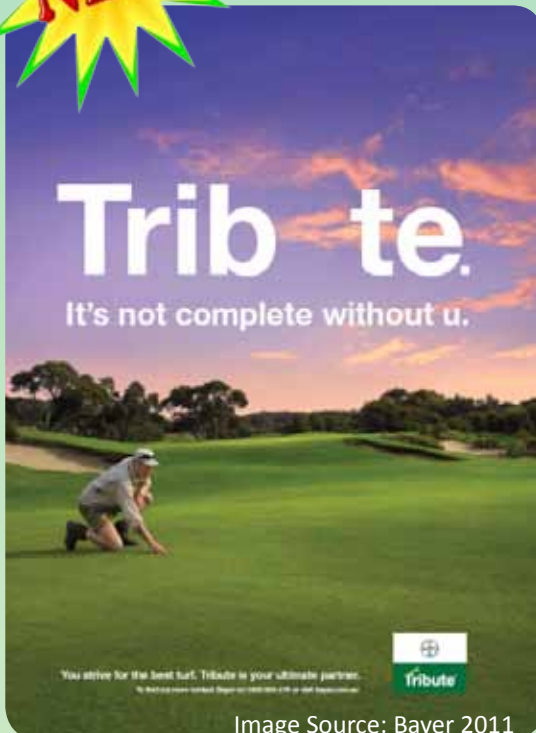


Image Source: Bayer 2011

**Tribute**® is a newly registered sulfonylurea herbicide from Bayer, **Tribute**® contains the active ingredient foramsulfuron. The product selectively removes unwanted cool-season grasses from warm-season grasses. **Tribute**® effectively controls grasses such as wintergrass and perennial ryegrass. Registered for use on tolerant warm-season grasses such as couchgrass, **Tribute**® also controls crowsfootgrass.

**Tribute**® is a member of the sulfonylurea family of chemicals. After application, **Tribute**® is readily absorbed by the foliage and translocated to the site-of-action in the growing points of the plant. The chemical inhibits the enzyme acetolactate synthase (ALS), which is critical in a plant's production of three key amino acids. It stops cell division and growth within hours of application. The first symptom is chlorosis – or yellowing of leaves, followed by death of the plant.

**Tribute**® is labeled for application at 1.5 to 2 litres per hectare. Use the higher rates for control of crowsfootgrass and other hard-to-control species. **Tribute**® can also be spot sprayed at rates of 8-15 millilitres per litre of water.

Turf managers can use **Tribute**® anytime the temperature is warm enough. If using **Tribute**® as a transition aid, applications are made in the spring. When using it to remove undesirable grasses in actively growing couchgrass, **Tribute**® can be applied anytime the weeds are present. Two or more applications of **Tribute**® 14 days apart may be needed to control crowsfootgrass.

Speed of removal depends on air temperature. Warmer temperatures lead to faster removal. At temperatures of 21 °C and higher, removal of undesirable cool-season grasses can take place in one week or less. If temperatures are 16 °C or lower, removal could take two to three weeks or longer. Turf managers are best advised to use **Tribute**® as a transition aid when warm-season grasses are strongly coming out of dormancy. On the other hand, turf managers can use **Tribute**® to remove volunteer ryegrass – or clumpy rye – whenever the desirable grass is actively growing. It is not advisable to use **Tribute**® during cold periods during the winter.

Generally, **Tribute**® does not move or track when used according to label directions. **Tribute**® must dry on the treated area before irrigation or rainfall occurs to avoid natural movement of the product or tracking by equipment or foot traffic. The label specifies further directions to reduce the risk of tracking onto bentgrass greens.

**Tribute**® is formulated as a 2.25 percent SC liquid, containing 22.5 g active ingredient per litre. The product is packaged in a convenient, one litre container.

# Pro-Film 904

**Pro-Film 904** is a unique, high quality, multi-purpose non ionic surfactant, designed to enhance performance of herbicides, fungicides, insecticides and PGR's applications.



**Pro-Film 904** is natural derived from pine resin technology developed by the market leading company in the US - Miller Chemical Company.

## Key Benefits of Pro-Film 904

- Provides unsurpassed deposition (sticking) of contact chemistries onto the plant.
- Provides excellent penetration of systemic chemistries into the plant.
- Provides a high level of softness to the plant's cuticle – **Pro-Film 904** doesn't destroy the plant's cuticle, unlike many other adjuvants.
- **Pro-Film 904** forms a film around the leaf of the plant, limiting plant water loss (as a result of the cuticle disruption) and encapsulating the chemistry reducing odour and limiting volatilisation & UV degradation issues.
- Significantly improves rainfastness (even with Daconil Weathershield & Fore Rainshield technologies).
- Naturally derived product – formulated from Pine Oil resins.

## SURFACTANT USAGE GUIDE

Product Benefits		Pro-Film 904	Wetter 1000	LI-700	Ammonium Sulphate	Driftex
Water pH				•		
Conditioning (Water Hardness)					•	
Droplet Management		•		•		•
Deposition Aid		•		•		•
Spreading		•	•	•		
Penetration	Systemic	•	•	•		
	Contact	•				
Rainfastness	Systemic	•	•	•		•
	Contact	•				•



# The Nuturf Soil Testing Service

Nuturf's Getresults website offers turf managers an invaluable tool for agronomic, budgeting and other management applications in the workplace.

The website has now been running for 8 years and has processed over 30000 Australian soil samples - all the while improving on the service and functionality that is offered through Getresults.

Nuturf's web-based soil analysis is a comprehensive analysis performed locally, for local conditions. Ideal levels are specific to turfgrass requirements and include all major parameters that a turf manager requires to maintain a healthy sward.

The report quantifies cations in both ppm and as base saturation percentage, with the inclusion of hydrogen allowing for the most accurate measure of nutrient balance. Therefore the most accurate deficiencies (Ca, Mg, k and P) are calculated taking into account other characteristics of the soil such as the exchange capacity and pH.

## **Key features of the Getresults website are as follows:**

- You cannot lose the results as they are always accessible and printable online
- Offers the ability to compare results in many different ways, focussing on the individual parameters that you desire
- Graph your results to track the health of your soil over a period of time, this can give an indication of the success of current and past nutritional practices.
- Easy to use interactive website
- Fast turn-around times – once results are completed at the lab they are posted online immediately
- Free to activate when you purchase a web-based soil, water or tissue analysis, with no ongoing costs
- Online features extend to Nuturf's other web-based analysis such as irrigation Suitability Analysis and Plant Tissue Analysis
- Results displayed in graph format for ease of interpretation

## **2011 SOIL TESTING INCENTIVE**

As a Thank You for supporting our Nuturf's Agronomy Services Division and Soil Testing Service you will go into the draw for the chance to win the following prize:

### **Apple iPad 2, 16GB with 3G & Wi-Fi!**





**stamina<sup>®</sup>**  
**relieve**

**Stamina Relieve** is a soil-amending polymer, specifically developed to assist in optimising air:water ratios in the soil, particularly in heavier rootzones.

The charged polymer molecules in **Stamina Relieve** are electrostatically attracted to clay or silt particles and their attached ions. As a result, the polymer strings link individual particles and increases aggregate stability within the soil. This results in greater porosity, enhances water availability for plant uptake and ensures adequate drainage in the top of the soil profile.

### How Stamina Relieve can Help You

- Improves aeration and permeability in the soil.
- Enhances water availability.
- Improves Water infiltration.
- Ideal for use in the winter months to keep the rootzone from becoming over saturated.
- Ideal for tank mixing with other Stamina Surfactants.
- Eliminates wet/dry spots.
- Significantly increases water movement.
- Non toxic and environmentally safe.
- Low use rates, allowing for Economical treatment over larger areas.



**stamina<sup>®</sup>**  
**express**  
DUAL ACTION THATCH AND SOIL PENETRANT

**Stamina Express** is a high quality thatch and soil Penetrant surfactant blend, specifically designed to quickly and efficiently move water into the soil profile. **Stamina Express** is economical and ideal for injection into irrigation systems or application via boom sprayer for large area usage.

**Stamina Express** as well as containing a high level of penetrant surfactant technology, also possesses a residual surfactant component, allowing for excellent rewetting and prevention of dry patch formation in the initial weeks following the application.



## Dimension® EW



### Success Stories with Dimension EW at Brisbane Racing Club - Australia

Brisbane Racing Club is one of Australia's largest racing clubs consisting of both Eagle Farm and Doomben Racecourses. Together the two course proper's have around 100 race meetings per year plus constant pressures on the training tracks. One of the biggest challenges faced by the BRC on a yearly basis is the constant battle with Crowsfoot (*Eleusine indica*). Dimension has now become an integral part of their maintenance program.

"Following a major renovation in November 2009 in which the tracks were shaved back to the profile, the amount of Crowsfoot that subsequently appeared was considerable given our yearly applications of Pre-M herbicide, all of which had to be removed by hand. The following winter leading into spring, Rob Green from Nuturf suggested we apply Dimension as an important preventative in the belief that a Crowsfoot infestation was likely. We are extremely pleased at the results following this application, with no Crowsfoot appearing in Spring/Summer 2010. With this in mind I have absolutely no hesitation in recommending Dimension EW to anyone in the Racing and Turf Industry."

*Sean Bridges, Brisbane Racing Club.*

### What is Kelpak?

Kelpak is the liquid extract of the fastest growing seaweed in the world - *Ecklonia maxima*. Kelpak is the only extract produced in the "Cold Cell Burst Method". This method ruptures the cell walls releasing sap and vital plant hormones primarily auxins and cytokinins, without any denaturing. Other extraction methods can reduce the activity of certain plant hormones, and as a result limit the capability of the product

### Benefits of Kelpak

- Auxin dominated Kelp product that promotes larger and more vigorous root systems.
- 100% natural and ideal auxin to cytokinin ratio proven to provide greatest root activity response.
- As soil calcium can only be taken up by new root tips, Kelpak-driven new root growth facilitates uptake of calcium.
- Natural plant hormones help turfgrass recover from stress situations.
- Encourages strong cell development.
- Improved general plant health enhances plant resistance to nematodes and other pest and fungal diseases.
- Ideal tank mix partner with your maintenance fertiliser applications.
- Can be applied with a wide range of other products, reducing the number of spray applications needed.



### Why is Kelpak the World's leading Seaweed Extract?

In comparison to other seaweed products, Kelpak contains the highest levels of naturally derived growth hormones auxins and cytokinins at a ratio proven to provide the greatest root activity response (11.0 mg/L of auxin and 0.031 mg/L of cytokinin). The high levels and natural ratio are preserved by the cold cell burst production process which is unique to Kelpak. Other methods of extraction significantly reduce the all important auxin content. Products that add high levels of synthetically derived hormones do not provide greater root activity. Unlike 100% naturally derived Kelpak, synthetic formulations are more likely to 'confuse' the turfgrass in terms of the intended plant response.

### The Role of Auxins

Auxins are directly linked to the development of adventitious roots in many crops. This is the desired response in turfgrass, resulting in many benefits including greater rootmass, increased plant health, strength and stress resistance.