

# MONUMENT for monumental sedge control this Summer

 **Monument<sup>®</sup> Liquid**  
Turf herbicide

syngenta<sup>®</sup>

MONUMENT LIQUID Turf Herbicide (trifloxysulfuron-sodium) is the best sedge, broadleaf and grass control partner in Couch with reliable and effective results. This proven herbicide remains a powerful first choice for many turf managers to manage sedges and broadleaf weeds.

The active ingredient in MONUMENT – trifloxysulfuron-sodium – is viewed as one of the most powerful and reliable sedge control options in turf. *Weed Science Journal* stated that **“Trifloxysulfuron control Mullumbimby Couch more effectively than halo-sulfuron”** (McElroy et al., 2004).

## MONUMENT is the established sedge and broadleaf destroyer

- Powerful solution for controlling sedges in turf
- Excellent turf grass safety over a wide range species
- Kills sedges and broadleaf weeds at growth points; roots tubers, vegetative plantlets and stem growth points
- Inhibits growth leading to chlorosis, sedge and other weed's death
- Actively up-taken by foliage above ground and roots below ground
- Complete systemic action traveling by both xylem and phloem to growth points



**Nutgrass**  
(*Cyperus rotundus*)

A perennial sedge that reproduces by tubers and nutlets. Contains many interconnected daughter shoots and tubers.



**Mullumbimby Couch**  
(*Cyperus brevifolius*)

A perennial or annual sedge that is mat forming. Reproduces by rhizomes. Contains many interconnected plants.

# How to get sedges under control

## How it works

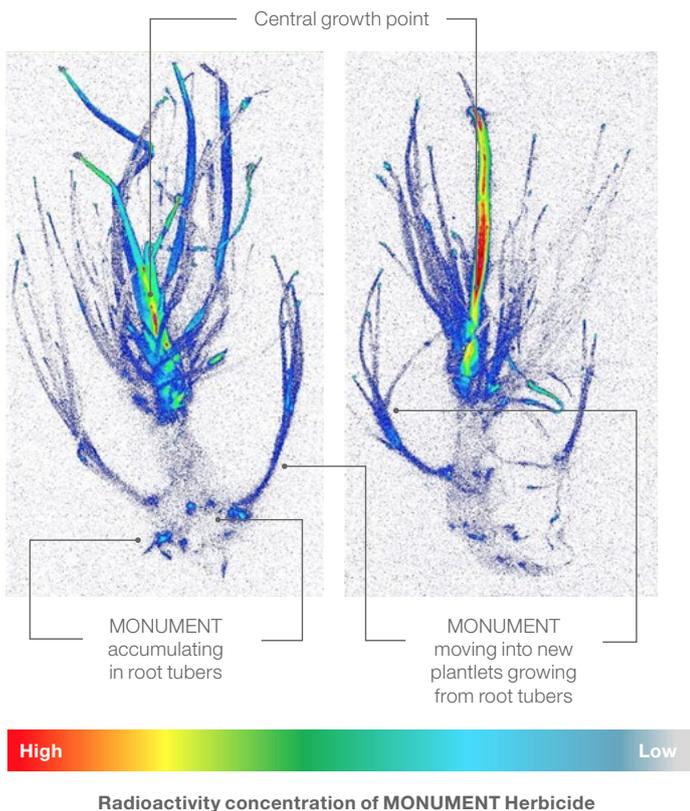
The active ingredient in MONUMENT inhibits Acetolactate synthase (ALS inhibitor), efficiently rendering the weed incapable of producing amino acids, which are the building blocks of cells. The weed is then incapable of continued growth and function, leading to weed death.

MONUMENT is readily taken up by leaves, shoots, crowns, stolons and roots of sedges and other weeds. This herbicide starts as a foliar absorbed product, and the subsequent irrigation required for turf health places MONUMENT into the soil profile. Here it continues to be effectively taken up by the weed's roots, ensuring maximum effect.

Complete weed treatment is achieved through the flexibility of uptake, partnered with the strong redistribution in weeds which makes MONUMENT a powerful option for established sedge populations.

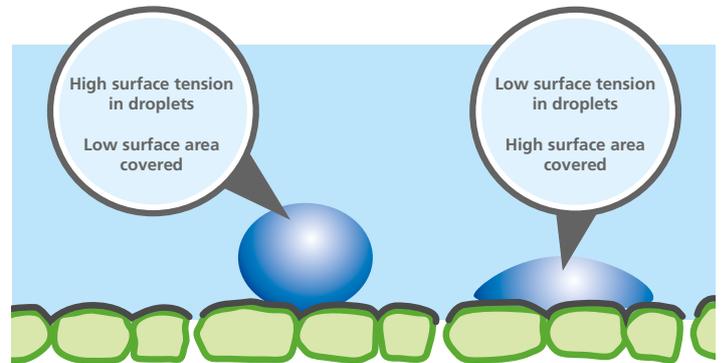
## Distribution of MONUMENT in Nutgrass

The distribution is indicated by Radio labelling of the herbicide. This image was taken 7 days after treatment and shows the effective distribution of MONUMENT to growth points and new growth.



## Getting the most out of your MONUMENT applications

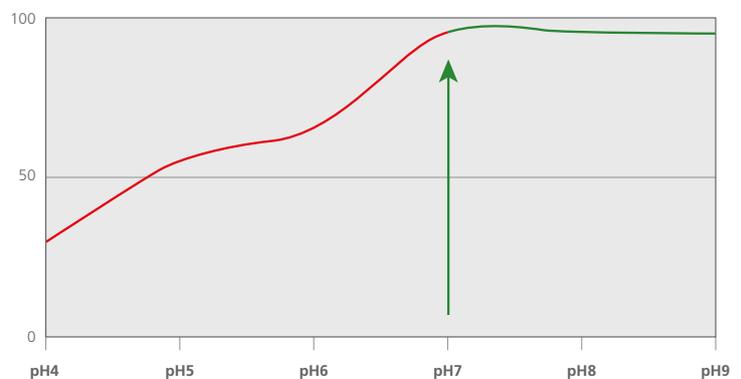
The inclusion of a non-ionic surfactant in tank mix is essential to ensuring best results. The addition of a surfactant results in greater leaf coverage and thus a greater area of absorption. For example; you can use AGRAL (600 g ai/L) at 0.42% v/v or 420 mL/100 L spray mix. Refer to the label for more information.



## Spray tank water source

Like many herbicides, MONUMENT degrades in acid pH. Ensure that your water source has a pH of 7 or greater. A tank mix buffer can be used to bring the water back to neutral. When tank mixing MONUMENT with additional products, care should be taken to ensure the total solution is at pH7 or greater.

Percentage Degradation of Trifloxysulfuron in Solutions with Varying pH Values



## Temperature influences herbicide uptake

MONUMENT is most effective when soil temperatures are 15°C and above. This ensures actively growing sedges and effective root uptake which will deliver the best control outcomes.

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For more information contact your local Syngenta Territory Manager.  
For full label detail and SDS use the Syngenta Greencast App or visit [greencast.com.au](http://greencast.com.au)

Reference: MCELROY, J. S., YELVERTON, F. H., BURKE, I. C. & WILCUT, J. W. 2004. Absorption, translocation, and metabolism of halosulfuron and trifloxysulfuron in green kyllinga (*Kyllinga brevifolia*) and false-green kyllinga (*K. gracillima*). *Weed Science Journal*, 52, 704-710.

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