



# 3-D Herbicide

## Selective Sedge and Broadleaf Weed Control

### Product Overview

- 3D herbicide is a sedge and broadleaf weed herbicide containing 192 g/L bentazone, 112 g/L MCPA and 19 g/L dicamba
- It is registered for the control of a wide range of dicot weeds and sedges in a broad range of recreational turf situations
- 3D Herbicide is very safe on a large number of established turf varieties including couch, Qld blue couch, fescue, carpet, centipede, Kentucky blue and rye grass
- A key feature of 3D Herbicide is its low odour, schedule 5 characteristics, making it easy to use and safer for use in public environments
- 3D Herbicide is one of the broadest spectrum broadleaf weed & sedge herbicides available on the market, registered to control a minimum of 12 key weeds
- 3D herbicide contains dual modes of action for improved performance and resistance management.



### Mode of Action

GROUP **CI** HERBICIDE

MCPA & Dicamba are foliar absorbed systemic herbicides that belong to the Group I Mode of Action Group. They are often termed auxin mimic herbicides because they mimic natural growth hormones, and upset the natural hormone balance in weedy species. Growth hormones regulate cell elongation, protein synthesis, and cell division. By upsetting the normal hormone balance within susceptible weeds, auxin mimic herbicides cause unregulated plant growth, causing symptoms on susceptible plants that include growth and reproduction abnormalities. Broadleaf species exhibit stem and petiole twisting (epinasty), leaf malformations, parallel venation, crinkling, leaf strapping, stem callus formation, and stunted root growth. Plant death is gradual, due to unconstrained mobilization of reserves, however generally symptoms are observed within 7- 14 days following application.

Bentazone is a Benzothiadiazole herbicide that works by inhibiting photosynthesis in the chloroplast of plants. After application, chlorosis begins 3 to 5 days following application followed by necrosis and desiccation of the plant. Bentazone is a contact herbicide and therefore thorough coverage of the foliage of weeds is essential.

### Use Rates

3D Herbicide is applied at a rate of 6 L - 20 L/Ha (60 mL - 200 mL/100 m<sup>2</sup>). In most situations the 6 L/Ha (60 mL/100 m<sup>2</sup>) is sufficient to control most weeds. To enhance coverage and movement of the active ingredients into the plant, it is recommended that 3D Herbicide be mixed with a crop oil concentrate (COC), such as Hasten.

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For optimum results it is best to apply to actively growing weeds. Ideally, do not mow the turf for 3 days prior to and following the application. Other key considerations are as follows;

- Weeds are killed by absorption through the leaf and root system of susceptible weeds
- It is important to apply the recommended spray mixture when the weeds are young and actively growing and soil is moist
- If possible, avoid mowing for 3 days following application
- Do not apply if rain is expected within 8 hours
- If necessary to re-spray, allow an interval of 3 weeks
- Results may take time to become evident
- A useful tank mix partner with Bentazone is MSMA. This mixture will greatly extend grass weed control capacity.

Product		Sedges	Bindii	Chickweed	Clovers	Creeping Oxalis	Cudweeds	Dandelion	Dock	Jo-Jo (One Hunga)	Fleabane	Flatweeds	Lambs Tongue (Plantain)	Sow Thistle
Herbicides	3-D HERBICIDE	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	SPEARHEAD HERBICIDE		▲		▲	▲	▲			▲		▲	▲	
	BROADSIDE HERBICIDE*		▲		▲	▲	▲	▲		▲	▲	▲	▲	▲
	METHAR TRI KOMBI*		▲	▲	▲	▲		▲				▲	▲	
	KAMBA M*		▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	
	SPORTSGROUND*		▲	▲	▲	▲		▲				▲	▲	

## Features and Benefits

Features	Benefits
Excellent Sedge Control properties, effectively eliminating underground tubers	Reliable activity on sedges. Excellent rotational option to SU chemistry
Dual modes of action, Group C & I	More effective performance. Resistance management benefits
Broadest Spectrum Weed Control	Will get the job done on most broadleaf weed species and sedges
Low odour, Schedule 5 herbicide	It's easy to use and safer for use in public environments
Effective on both immature and mature weeds	Controls broadleaf weeds at most stages of development
Controls tough broadleaf weeds such as Creeping Oxalis and Fleabane	Can effectively be used to target the toughest weeds in your turf management situation
Can be used over a range of warm and cool season turf species.	Safe on most key turf types on the market. Has proven safety on golf and bowling greens.

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