



OxStar Herbicide Coated Fertiliser

*An ounce of prevention is
worth a pound of cure*

TURF
culture



Combination Herbicide and Controlled Release Fertiliser for Pre-Emergent Control of Summer Grass, Crab Grass and Winter Grass in Turf. Plus Nutrient Delivery (Feeding) to Turf.



OxStar Herbicide Coated Fertiliser

Technical Brief

Active Constituent:	10 g/kg Oxadiazon
Chemical Family:	N-Phenyl-oxadiazolones (PPO inhibitor)
Mode of Action Group:	14 (previously group G)
Formulation:	Granule (G)
Mode of Action:	OxStar Herbicide Coated Fertiliser is a member of the N-Phenyl-oxadiazolones (PPO inhibitors) family of herbicides. OxStar Herbicide inhibits protoporphyrinogen oxidase, leading to irreversible cell membrane damage. After application and incorporation into the soil OxStar Herbicide is adsorbed by the soil colloids forming a herbicidal layer through which germinating weeds must pass; they absorb the OxStar Herbicide through the shoot and subsequently die. Therefore the soil should remain undisturbed after treatment. Note: see Selectivity section below
Behaviour in Plants:	Is not taken up by roots - does not affect root systems (no root-pruning) and is not translocated through the plant. Germinating weeds must pass through the herbicidal layer in the soil and they absorb the OxStar Herbicide through the shoot and subsequently die.

Benefits

- Effective against major annual grass weeds in turf during summer and winter
- Controls weeds by controlling weed seedlings as they come in contact with the herbicide during germination
- Reduces future weed set and germination
- Reduces the reliance on costly selective post-emergent herbicides
- Controls weeds through shoots, not roots – Doesn't inhibit turf root growth or recovery from damage
- Doesn't prevent roots from pegging down
- Controls germinating weeds for up to 10 weeks
- Convenient ready to use granular formulation

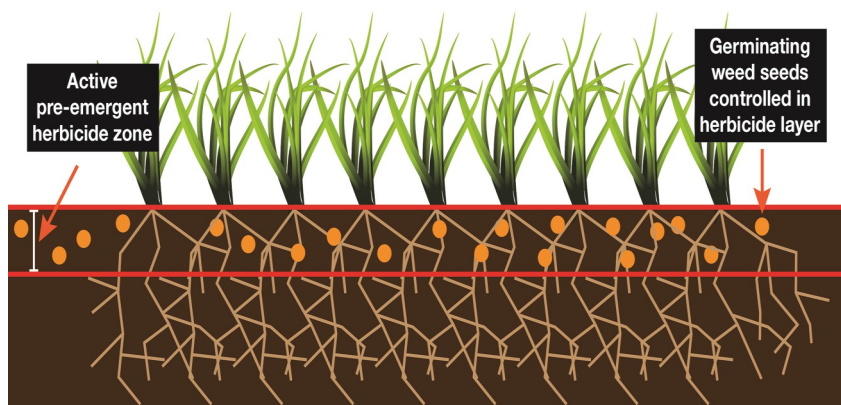
Selectivity

OxStar Herbicide's selectivity is primarily through soil profile placement. Achieving this soil profile placement of the herbicide correctly is vital to obtain high efficacy. Applicators should ensure an even application and incorporation by way of irrigation or rainfall into the soil profile to achieve a consistent and even zone of herbicide activity (see graphic below).

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OxStar Herbicide controls weeds by inhibiting an essential plant growth enzyme known as protoporphyrinogen oxidase or "protox" for short. This inhibition hinders the usual developmental functions of the plant and breaks down tissues.

Relationship of OxStar Herbicide zone, germinating weeds and herbicidal layer through which germinating weeds must pass



Weed Management

Situation / Turf Species	Weeds Controlled	Rate	Critical Comments
Warm season turfgrass species as listed below; in areas including fairways, golf tees, municipal sports fields, industrial and commercial lawns Bahia Grass (<i>Paspalum notatum</i>), Buffalo grass (<i>Stenotaphrum secundatum</i>), Common Couch (<i>Cynodon dactylon</i>), Hybrid Couch (<i>Cynodon dactylon</i> C. <i>transvaalensis</i>) [NOT Santa ana], Kikuyu (<i>Pennisetum clandestinum</i>), Queensland Blue Couch (<i>Digitaria didactyla</i>), Saltwater Couch (<i>Paspalum vaginatum</i>), Zoysia (<i>Zoysia matrella</i>)	Pre-emergent control of: Summer Grass (<i>Digitaria ciliaris</i>), Crowsfoot Grass (<i>Eleusine indica</i>)	300 kg per ha (3 kg per 100m ²)	The product is ready to apply. No mixing or dilution is required. Apply product evenly to dry foliage and bare areas using a granular spreader able to give even coverage. Application must be made before weeds have begun to germinate. Established weeds will not be controlled. After application water in with at least 10 mm of sprinkler irrigation. Control of germinating weed seedlings can be expected for up to 10 weeks after application depending upon temperature, rainfall, soil type and other factors. If longer control is required a repeat application should be made 7 to 10 weeks after initial application.
	Pre-emergent Control of: Winter Grass (<i>Poa annua</i>), Creeping Oxalis (<i>Oxalis comiculala</i>)	400 kg per ha (4 kg per 100m ²)	DO NOT mow treated area until product has been watered in and turf foliage has dried. Avoid application when daytime temperatures are consistently above 32°C. This product is not recommended for use on putting greens, low cut tees or bowling greens. DO NOT apply on turf containing Carpet Grass (<i>Axonopus</i> spp.), Centipede Grass (<i>Eremochloa ophiuroides</i>) and Dichondra unless some damage is acceptable.
	Turf Nutrition: Both rates of this product will provide plant nutrients	300 & 400 kg per ha (3 & 4 kg per 100m ²)	For further information of this nutrition in terms of NPK and any slow release nutrient timelines please see fertiliser analysis and release details listed on this label.

Note: The above table represents only a modified extract from the full registered label. Always read the full product label before use.

Application

For a granular spreader, which can be calibrated for even output and capable of giving even application. Use a double application technique: i.e. half rate width, to achieve a full rate application. Apply under calm conditions, thereby reducing drift to non-target areas and optimizing particle distribution for good weed control.

Ensure turf area is free of leaves and other debris, mow the area if necessary so that the granules reach the soil surface. DO NOT over apply, especially under the branch spread of trees and shrubs. Avoid contact with flowers and shrubs.

Plant-Back Periods

Ryegrass: Allow 4 months after last application to lapse before re-seeding.

Bent grass: Allow 5 months after last application to lapse before re-seeding.

How to get the most out of your application

- Soil Preparation: Areas to be treated should be free of established weeds.
- Apply prior to germination of target weeds.
- The best way to ensure fast and effective weed control is to thoroughly water the treated area soon after application. Avoid significant disturbances to the soil surface which can create holes in the preemergence barrier.
- OxStar Herbicide should be incorporated by 10 mm of spray irrigation or rainfall as soon as possible.
- DO NOT mow treated area until product has been watered in and turf foliage has dried.

Restraints

DO NOT apply granules when the turf foliage is wet.

DO NOT use on putting greens, low cut tees or bowling greens.

DO NOT apply to newly seeded turf areas.

Packaging

Pack sizes: 8 kg, 20 kg, 1000 kg