

POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING



Brek 500 SC Herbicide

ACTIVE CONSTITUENT: 500 g/L PROPYZAMIDE
SOLVENT: 42 g/L ETHYLENE GLYCOL

GROUP	D	HERBICIDE
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For Selective Control of *Poa annua* (Winter grass) in Turf

**For Selective Control of Certain Grasses and Broadleaf Weeds in
Canola, Mustard, Pyrethrum, Lettuce, Legume Seed Crops and
Pastures**

IMPORTANT: READ THIS LEAFLET BEFORE USING THIS PRODUCT

APVMA Approval No.: 62471/126979

TURF
culture



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DIRECTIONS FOR USE

Restraint

DO NOT use on heavy red and peat soils.

Spray Drift Restraints

Specific definitions for terms used in this section of the label can be found at:

www.apvma.gov.au/spraydrift

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings 1 to 2 hours before sunset and persist until 1 to 2 hours after sunrise.

Situation	Weeds Controlled	Rate per ha	Critical Comments
Established Turf (as listed) Buffalo Grass (<i>Stenotaphrum secundatum</i>), Common Couch (<i>Cynodon dactylon</i>), Hybrid Couch (<i>Cynodon dactylon</i> x <i>Cynodon transvaalensis</i>), Kikuyu (<i>Pennisetum clandestinum</i>)	Winter grass (<i>Poa annua</i>)	1.2 L in 400 to 800 L of water per ha (12 mL in 4 to 8 L of water per 100 m ²)	Apply during the Autumn and Winter, if established turf is infested with seedling Winter grass. Ensure a uniform coverage. Irrigate immediately after application with 12 to 25 mm irrigation or rain and again 24 hours later. Repeat if necessary on Qld Blue Couch after 4 weeks. Use only on established turf. DO NOT use on Bluegrass, Ryegrass, Fescue or Bent grass turf surfaces and lawns/surfaces. Significant damage may occur on some varieties & cultivars such as: <ul style="list-style-type: none"> • Common Couch (i.e. native couches & couch planted by seed) • Kikuyu grasses
Qld Blue Couch (<i>Digitaria didactyla</i>)		0.6 L in 400 to 800 L of water per ha (6 mL in 4 to 8 L water per 100 m ²)	It is recommended that small areas be tested for turf safety before large-scale application occurs. Turf safety testing is best assessed at 6 to 8 weeks after application. DO NOT re-seed for 60 days after treatment.

Situation	Weeds Controlled	State	Rate per ha	Critical Comments
Canola, Mustard (oilseed cultivars, <i>Brassica juncea</i>)	Annual Ryegrass, Barley grass, Canary grass, Fescue, Great Brome, Prairie grass, Rat's Tail Fescue, Silvergrass, Squirrel Tail Fescue, Wild Oats, Winter grass	All states	1 L	Incorporate by sowing (IBS) when weeds are at the pre-emergent stage.
Chicory, Endive, Radicchio	Grass and broadleaf weeds including; Barnyard grass, Summer grass, Winter grass, Ryegrass, Portulaca, Prince of Wales Feather, Blackberry Nightshade, Chickweed, Nettles, Shepherds Purse, Wireweed	All states	3.4 L in 330 – 500 L water	Direct Sown Crops: Apply pre-emergence immediately after sowing. To ensure best results, the seed bed should be well prepared and free from clods. Sprinkler irrigation after application is desirable. Transplanted Crops: Apply immediately after transplanting to clean freshly worked soils, well prepared and free from clods. Sprinkler irrigation after application is desirable.
Lettuce Direct sown	Barnyard grass, Blackberry Nightshade, Chickweed, Portulaca,	All States	4.5 L in 330 – 550 L of water	Apply pre-emergent, immediately after sowing. For best results, prepare the seed bed free from clods. Sufficient irrigation to wet the top 3 to 4 cm of soil should be applied within 24 hours.
Lettuce Transplanted	Winter grass, Ryegrass, Summer grass, Wireweed, Prince of Wales Feather, Shepherd's Purse, Nettles	Vic only	2.3 L in 300 – 550 L of water	Apply immediately after transplanting. For best results, prepare the seed bed free from clods. Sufficient irrigation to wet the top 3 to 4 cm of soil should be applied within 24 hours. Apply on light sandy soils, low in organic matter.

Situation	Weeds Controlled	State	Rate per ha	Critical Comments
Lucerne, Clover, Medics etc. Grown for forage, hay or seed production	Annual Ryegrass, Winter grass, Barley grass, Silver grass, Prairie grass, Canary grass, Great Brome, Squirrel Tail Fescue, Rats Tail Fescue	NSW, ACT, SA, WA, Tas only	1 to 1.5 L	<p>SEEDLING CROPS: Apply after the third trifoliate leaf is fully developed.</p> <p>ESTABLISHED CROPS: Apply any time before the end of July.</p> <p>WEEDS: Apply when weeds are at Post or Pre-emergent stages.</p> <p>BEST RESULTS: When applied during cool and moist conditions.</p> <p>Rain or irrigation is necessary to thoroughly wet the top 3 to 4 cm of soil. This is similar to 25 mm rain. Use rates towards the higher end of the range on heavy soils, if conditions are not optimal or where a heavy grass population is expected. Grazing or cutting PRIOR to treatment is recommended.</p>
	Wild Oats, Perennial Ryegrass, Bent grass, English Couch, Yorkshire Fog grass, Chickweed, seedling Sorrel, Blackberry Nightshade, Patterson's Curse, seedling Wireweed		1.5 to 2 L	
Pyrethrum crops (<i>Tanacetum cinerariifolium</i>)	Annual Ryegrass	All states	2.5 to 4.5 L apply in a spray volume of 330 to 550 L/ha	<p>Apply only in crops where there is evidence of Group A or B herbicide resistant ryegrass (HRR).</p> <p>Apply a maximum of 2 foliar applications per season at a minimum interval of 30 days.</p> <p>Crop may be treated either at pre-emergence stage, or at post-emergence stage any time after the third leaf has fully developed.</p> <p>Best results are obtained when the product is applied during cool moist conditions. Rain or irrigation is necessary to thoroughly wet the top 3 to 4 cm of soil. This is similar to 25 mm of rain. Use low rate for light, sandy type soils. Use higher rate on heavier soils, if conditions are not optimal, or where a heavy grass population is expected.</p> <p>Grazing or cutting of crop before treatment is recommended.</p> <p>To Avoid Crop Damage The sensitivity of <i>Tanacetum cinerariifolium</i> to propyzamide based products may be variable. A small area of crop should therefore be sprayed in the first instance, and plant health closely monitored over the following days/weeks. Discontinue applications when any adverse symptoms post-treatment are observed.</p>

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL
 UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION**

WITHHOLDING PERIODS

HARVEST

Canola, Chicory, Endive, Mustard, Pyrethrum, Radicchio: NOT REQUIRED WHEN USED AS DIRECTED

GRAZING

Canola, Mustard: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 12 WEEKS AFTER APPLICATION

Pyrethrum: DO NOT GRAZE OR CUT TREATED AREA FOR STOCK FOOD FOR 25 DAYS AFTER APPLICATION

Chicory, Endive, Radicchio: DO NOT GRAZE

All Other Crops: DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD OR FOR SEED FOR 25 DAYS AFTER APPLICATION

GENERAL INSTRUCTIONS

Brek 500 SC Herbicide contains 500 g/L propyzamide in the form of a suspension concentrate (SC).

Brek 500 SC Herbicide is a selective herbicide, absorbed by the roots then translocated to the growing points of the plant, inhibiting cell division in susceptible weeds, leading to disruption of growth and eventual death. This effect is achieved by a gradual accumulation of a lethal dose through the root systems of susceptible species.

Propyzamide has very low water solubility; this property reduces movement through and across the soil profile. It will therefore not move significantly from the top 3 to 5 cm of the soil profile after application.

Best results are obtained by applying the product to cool, wet soil.

Yellowing or chlorosis of the foliage is the first symptom seen in treated weeds. This follows in time by death of the foliage and then the whole plant.

Complete weed death may take up to 6 to 8 weeks (symptoms may not appear for at least 3 to 4 weeks).

Mixing

Prior to pouring, shake container vigorously, then add the required quantity of Brek 500 SC Herbicide to the partly filled spray tank while agitating. Fill tank and agitate to ensure thorough mixing. Continue agitation while spraying. Reseal partly used container immediately.
DO NOT mix with other pesticides.

Application

Ground Application: Spray nozzles should be uniformly spaced and of the same size and should provide accurate and uniform application. Use spray nozzles that produce a medium spray quality. To ensure accuracy, calibrate sprayer before use and calibrate frequently.

Good even coverage with the spray is essential for optimum weed control. Observe sprayer nozzles frequently during the spraying operation to ensure that the spray pattern is uniform. Avoid overlapping of spray runs. Avoid application under conditions when uniform coverage cannot be obtained or when spray drift may occur.

When spraying avoid overlapping, and shut off spray booms while starting, turning slowing and when stopped. Neglecting these procedures will cause higher rates of application resulting in crop damage. Delay spraying if heavy rain is expected within a few hours.

Additional Application Notes for Turf

Spray nozzles should be uniformly spaced and of the same size and should provide accurate and uniform application. Use spray nozzles that produce a medium spray quality. To ensure accuracy, calibrate sprayer before use and calibrate frequently. Apply at a volume of 400 to 800 L of water per hectare (4 to 8 L of water per 100 m²). Higher volumes should be used for severe weed infestations to ensure adequate spray coverage.

Frequency of Application

Apply no more than 2 applications of this product over a 12-month period.

Application Records

Users of this product **MUST** make an accurate written record of the details of each spray application within 24 hours following application and keep this record for a minimum of 2 years. The spray application details to be recorded are:

1. Date, with start and finish times of application
2. Location / address of area(s) sprayed
3. Full name of the product, product batch number (BN) and date of manufacture (DOM)
4. Amount of product used per hectare and the number of hectares treated
5. Crop species/situation and weed/pest
6. Wind speed and direction during application
7. Air temperature and relative humidity during application
8. Spray irrigation or rainfall after application, start time, duration and amount (mm)
9. Equipment used; nozzle brand, type, spray angle, operating pressure and total water volume applied per hectare
10. Name of person applying this product

(Additional record details may be required by the State or Territory where this product is used)

Sprayer Cleanup

To avoid subsequent injury to crops immediately after spraying thoroughly remove all traces of Brek 500 SC Herbicide from mixing and spray equipment. This is best conducted using a specialist boom-cleaning product.

RESISTANT WEEDS WARNING

GROUP	D	HERBICIDE
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Brek 500 SC Herbicide is a member of the benzamides group of herbicides. Brek 500 SC Herbicide has the inhibition of tubulin formation mode of action. For weed resistance management, Brek 500 SC Herbicide is a Group D herbicide.

Some naturally occurring weed biotypes resistant to Brek 500 SC Herbicide and other Group D herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Brek 500 SC Herbicide or other Group D herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Turf Culture Pty Ltd accepts no liability for any losses that may result from failure of Brek 500 SC Herbicide to control resistant weeds.

Advice as to strategies and alternative treatments that can be obtained from your local supplier, consultant, local Department of Agriculture, Primary Industries Department or Turf Culture representative.

PROTECTION OF LIVESTOCK, WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, which may cause spray drift onto nearby susceptible plants/crops, cropping land or pastures.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Protect from frost.

Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

SAFETY DIRECTIONS

Will irritate the eyes and skin. Avoid contact with eyes and skin. When preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, washable hat and elbow-length PVC gloves. After use, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

FIRST AID INSTRUCTIONS

If poisoning occurs contact a doctor or Poisons Information Centre. *Phone Australia 13 11 26.*

SAFETY DATA SHEET

For further information refer to the Safety Data Sheet (SDS), which is available from the supplier or from the manufacturer's website: www.turfculture.com.au

CONDITIONS OF SALE

The use of Brek 500 SC Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Turf Culture Pty Ltd regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Turf Culture Pty Ltd accepts with no responsibility for any consequences whatsoever resulting from the use of this product.

In a Transport Emergency Dial 000 Police or Fire Brigade