



For the control of certain broadleaf weeds in turf



Bow & Arrow Herbicide

Technical Brief

Active Ingredients:	20 g/L clopyralid present as the potassium salt 15 g/L diflufenican 300 g/L MCPA present as the potassium salt
Chemical Family:	Contains the following group compounds pyridine (clopyralid) pyridinecarboxamide (diflufenican) phenoxy (MCPA)
Mode of Action Group:	I / F
Formulation:	Suspension Concentrate (SC)
Mode of Action:	<i>Clopyralid</i> - classified as a Group I Herbicide, with a mode of action where the weed cannot grow due to disruption of plant cell growth (disruptors of plant cell growth). <i>Diflufenican</i> - classified as a Group F Herbicide, with a mode of action of a bleaching action, due to the inhibition of carotenoid biosynthesis, therefore preventing photosynthesis and leading to plant death. <i>MCPA</i> - classified as a Group I Herbicide, with a mode of action where the weed cannot grow due to disruption of plant cell growth (disruptors of plant cell growth).
Behaviour in Plants:	<i>Clopyralid</i> - Absorbed mainly through the foliage with some root absorption. Translocated strongly throughout the plant. <i>Diflufenican</i> - The foliage of the weeds absorbs diflufenican. However, good coverage is essential, because the translocation of the product is limited. <i>MCPA</i> - It is absorbed through the leaves of susceptible weeds and then rapidly translocates to accumulate in the growing points of the stems and roots, where it interferes with cell division and enlargement.

Benefits

- Outstanding broadleaf weed control
- Very low application rates of active ingredient
- Non-ester formulation (no volatilisation issues, reducing potential for off-target damage)
- One standard application rate
- Superior turf safety (cool and warm season grasses)
- No odour
- A mix of active ingredients for improved resistance management
- Low poison schedule (Schedule 5 - CAUTION)
- Additional surfactants not required for most weeds

Weed Management

Situation	Weeds Controlled	Rate	Critical Comments
Turf	Broadleaf weeds including; White Clover (<i>Trifolium repens</i>) Plantain (<i>Plantago lanceolata</i>) Capeweed (<i>Arctotheca calendula</i>) Cat's ear (<i>Hypochoeris radicata</i>) Bindii (Jo-Jo, Onehunga) (<i>Soliva sessilis</i>) Cudweed (<i>Gnaphalium</i> spp.) Creeping oxalis (<i>Oxalis corniculata</i>)	5 L in 200 - 500 L water/ha or 50 mL in 2 - 5 L water per 100m	Apply to actively growing weeds. Transient discolouration may occur on Kikuyu, Carpet grass and Queensland Blue Couch. Varietal differences in certain Buffalo grasses (e.g. ST85) may produce more pronounced effects and it is recommended that small areas be tested for turf safety before large-scale application occurs. Avoid exceeding application rates through overlapping sprayed areas. Use a surfactant for difficult to wet weeds.

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

How to get the most out of your application

- Apply 5 L in 200 - 500 L water/ha (50 mL in 2 - 5 L water per 100m) .
- For best results turf and weeds should be actively growing at the time of treatment.
- Surfactants (if used) should be added after Bow & Arrow Herbicide and water are mixed when the spray-tank is almost full.
- Avoid mowing during the 3 to 4 days before and after treatment.
- Avoid exceeding application rates through overlapping sprayed areas.
- Complete weed death may take up to 6 weeks. Faster results can be expected on smaller weeds.
- Shake container well before use.
- Transient discolouration may occur on Kikuyu, Carpet grass and Queensland Blue Couch.
- Varietal differences on certain species of buffalo grasses (eg. ST85) may lead to transient discolouration effects, it is recommended to try a small area first before large scale application occurs.

Mixing and Compatibility

MIXING

Shake original container before use. Agitate continuously to ensure thorough mixing before and during application. Only mix sufficient chemical for each day's work.

COMPATIBILITY

To avoid hydrolysis, Bow & Arrow Herbicide needs the spray tank water to be within a pH range of 5 to 8. No information is available that indicates physical compatibility with other products. Tank-mixing other products with Bow & Arrow Herbicide cannot therefore be recommended. As formulations of other manufacturers' products are beyond the control of Turf Culture Pty Ltd, all mixtures should be tested prior to mixing commercial quantities, compatibility testing should consist of assessing both; uniformed mixtures (i.e. no separation) and no rapid sediment build up (i.e. no flocculation).

Restraints

DO NOT APPLY if weeds or turf are under stress or when frosts are imminent.

DO NOT USE if rain is expected within 4 hours.

DO NOT USE clippings as mulch around other plants or for composting.

DO NOT use on Bent grass or Winter grass golf and bowling greens.



Packaging

Pack size: 500 mL, 10 L



Bow & Arrow Herbicide