Australian Government
Australian Pesticides and Veterinary Medicines Authority

ADVICE SUMMARY

APPLICATION FOR REGISTRATION OF A CHEMICAL PRODUCT

Product name: TURF CULTURE BOW & ARROW HERBICIDE
Applicant: TURF CULTURE PTY LTD
Product number: 64580
Application number: 48691

Purpose of Application and Description of Use: Registration of a 20 g/L Clopyralid present as the potassium salt, 15g/L Diflufenican and 300g/L MCPA present as the potassium salt, suspension concentrate product for the control of certain broadleaf weeds in turf.

Active Constituent(s): CLOPYRALID
DIFLUFENICAN
MCPA

Regulatory Decision:
To grant the application subject to the following conditions:

Standard Conditions of Registration/Approval

1. Containers must meet AgVet Code Regulation 18
2. Agricultural products must meet Active Constituents Quality Assurance Requirements
3. Label must contain a Date of Manufacture and Batch Number

For full conditions, refer to http://www.apvma.gov.au/advice_summaries/adv_summaries.shtml.

Non-Standard Conditions of Registration/Approval
Registration/approval is granted on the condition that it is subject to the relevant outcomes of the reconsideration referred to at page of the NRA / APVMA Gazette dated April 2010 (MCPA).*

*Explanatory Note: you should be aware that the APVMA will take steps to apply the outcomes of that reconsideration to this registration/approval as it thinks fit.

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External Efficacy Reviewer

The external efficacy reviewer assessed the bioequivalence data submitted by the applicant to establish that the efficacy and crop safety of the proposed product- Turf Culture Bow & Arrow is comparable with the registered reference product.

Data from 3 field trials (2 efficacy and crop safety and 1 crop safety only) conducted at different locations in Vic and Qld during. In the trials both products were used according to the same, currently approved, label directions for the registered reference product. All the trials were conducted by suitably qualified personnel and use sufficiently rigorous scientific methodology and suitable statistical analysis. All trials used Randomized Complete Block design including untreated controls. The rates of Bow & Arrow and the formulation used in the trials appear consistent with that proposed for registration. They were conducted in situations equivalent to those proposed on the label. The weed densities (moderate to high) and growth stages (seedling and mature) in the trials were sufficient to challenge the herbicide and are equivalent to label claims. Weed control was assessed with plants counts and phytotoxicity as a 1-10 rating.

Both products gave >90% control of the six broadleaf weed species present in the two efficacy and crop safety trials. Neither Bow & Arrow nor the reference product produced significant phytotoxicity symptoms on the kikuyu/ryegrass and kikuyu/couch turfs in the trials. There were no observable differences in performance between the two products. The small plot tolerance trial demonstrated acceptable crop safety of Turf Culture Bow & Arrow at up to 2x label rate on 15 different turf types/varieties and provides adequate support to the claim of safety on “turf”.

The reviewer concluded that the presented field trial data supports the efficacy and crop safety of the proposed product - Turf Culture Bow & Arrow and therefore recommended for registration.

Data relied on to provide the advice

Data No	Data Source*	Author(s)	Title	Date	Data Type	Data Sub-type	Authorising Party	Inherited Application No.
35012	S	P Howat	To evaluate TC-008 for the control of a range of broadleaf weeds in turf. Compare TC-008 to the standard product Spearhead Selective Herbicide	12 Nov 2008	Efficacy and Safety	Phytotoxicity and Crop Safety	Applicant	
35014	S	S Harvey	To evaluate the phytotoxicity potential of chemicals TC-006 and TC-008 on numerous warm and cool season Turfgrass varieties in NSW.	5 Sept 2008	Efficacy and Safety	Phytotoxicity and Crop Safety	Applicant	
35013	S	P Howat	To evaluate TC-008 for the control of a range of broadleaf weeds in turf. Compare TC-008 to the standard product Spearhead Selective Herbicide. Evaluate a combination product for broadleaf Weed Herbicide in turf.	12 Nov 2008	Efficacy and Safety	Phytotoxicity and Crop Safety	Applicant	

** S = Data submitted with the application; I = Data inherited (that is, referenced) from another application*