



ADVICE SUMMARY

APPLICATION FOR VARIATION OF A REGISTERED CHEMICAL PRODUCT

Product name: BARON 400 WP SELECTIVE HERBICIDE
Applicant: AGNOVA TECHNOLOGIES PTY LTD
Product number: 59148
Application number: 48374

Purpose of Application and Description of Use: Variation of the label approval to extend the use to include pyrethrum crops.

Active Constituent(s): OXYFLUORFEN

Regulatory Decision:

To grant the application subject to the following conditions:

Standard Conditions of Label Approval

1. 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.

ADVICE

External Efficacy Reviewer

In support of the proposal variations to label approval, the applicant submitted data from five replicated field trials conducted in northwestern Tasmania. Three of those examined both efficacy on groundsel as a target weed and crop safety (post-harvest pyrethrum), one examined crop safety only, and one examined plant-back safety for several vegetable crops on Baron treated soil. All of the trials collected either qualitative or quantitative data or both consisting of visual estimates of crop damage and weed damage, weed numbers, weed biomass, and yield by weight. This data was supplemented by a supporting statement arising from product's use under permit.

The trial designs were appropriate and statistically sound for assessing efficacy, crop safety, and plant back data. Trials were conducted in a primary region of pyrethrum production in Australia hence was representative of the product's actual use. The trials demonstrated acceptable crop safety for Baron WP at the proposed label rates of 0.5 to 1 kg/ha. Efficacy was also shown in three of the trials though this had previously been demonstrated as part of the existing registration for an equivalent oxyfluorfen product. Both qualitative and quantitative data indicated no significant differences between scores/yield weights for Baron treated crops. Plant-back data supplied does indicate negative plant-back effects across the range of vegetable crops tested; however the study demonstrated increasing plant-back periods resulted in reduced damage to non-significant levels.

The reviewer concluded that the trial data supplied adequately supports the extension of the use to pyrethrum crops. Specifically, the data provided demonstrates acceptable levels of safety of the product used on pyrethrum as when used according to label directions.

It is therefore considered that the proposed extension of product's use to pyrethrum crops would be safe and effective when used in accordance with the proposed label.

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.
34067	S	Frost, P.	Evaluation of Baron 400 WG for control of groundsel (<i>Senecio vulgaris</i> L.) in post harvest pyrethrum. Moriarty, Tasmania, 2006.	2007	Efficacy and Safety	Efficacy	Applicant	
34068	S	Kirkham, J.	Evaluating the efficacy and safety of the herbicide Baron WP on groundsel control in post harvest pyrethrum. Leith, Tasmania.	2005	Efficacy and Safety	Efficacy	Applicant	
34069	S	Frost, P. & Williams, K.	Evaluation of post-harvest herbicides for control of groundsel (<i>senecio vulgaris</i> L.) in pyrethrum. Forth, Tasmania.	2005	Efficacy and Safety	Efficacy	Applicant	
34070	S	Wilson, S.	Anecdotal support for the use of Baron 400 WP to control groundsel in pyrethrum.	2009	Efficacy and Safety	Efficacy	Applicant	
34071	S	Frost, P. & Williams, K.	Evaluation of post-harvest grass herbicides for crop safety in pyrethrum. Forth, Tasmania.	2005	Efficacy and Safety	Phytotoxicity and Crop Safety	Applicant	
34072	S	Kohler, D.	Evaluation of plant-back periods for onions, carrots, zucchini, cabbage and lettuce after herbicide applications.	2009	Efficacy and Safety	Phytotoxicity and Crop Safety	Applicant	

* S = Data submitted with the application

I = Data inherited (that is, referenced) from another application