



Evaluation Report for Category B, Subcategory 3.10, 3.11, 3.12, 3.2 Application

Application Number: 2012-5351
Application: New or changes to the product labels: tank mixes, new pests, new site or host, application timing
Product: Enforcer M Herbicide
Registration Number: 30691
Active ingredients (a.i.): Fluroxypyr, present as 1-methylheptyl ester (FLR)
Bromoxynil, present as octanoate ester (BRY)
MCPA, present as 2-ethylhexyl ester (MAE)
PMRA Document Number : 2292860

Purpose of Application

The purpose of this application was to add several weed control claims and tank-mix recommendations, to add canary seed as host crop, and to amend the stage of crop growth at application to the Enforcer M Herbicide label (Reg. No. 30691).

Enforcer M Herbicide is a co-formulation of three (3) active ingredients, fluroxypyr, a pyridine carboxylic acid belonging to the herbicide mode of action Group 4, bromoxynil, a nitrile belonging to Group 6 mode of action, and MCPA ester, a phenoxy carboxylic acid belonging to Group 4 mode of action. Enforcer M Herbicide is registered for the post-emergence control of annual broadleaf weeds in wheat (spring, durum and winter) and barley in the Prairie Provinces and the Peace River region of British Columbia.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

A toxicological assessment was not required for this application.

No new residue data were submitted to support the proposed requests to add new tank mix recommendations for wheat and barley, to add canary seed as a new host crop, to add several new weed control claims, and to revise the crop growth stage at which the product is applied to wheat and barley on the end-use product Enforcer M Herbicide. Enforcer M Herbicide is currently registered for use in/on wheat and barley for sale for use only in the Prairie Provinces and Peace River Region of British Columbia. It is not currently registered for use on canary seed. No residue data were provided for this use. However, canary seed is grown primarily for use as bird seed, and as such is considered a non-food/livestock feed use. The requested

changes/amendments to the Enforcer M Herbicide label are not anticipated to have an impact on the magnitude of the residues in the already registered crops. Therefore, the dietary exposure is not expected to increase and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Enforcer M Herbicide for use on canary seed to control various weeds fits within the registered use pattern for fluroxypyr, bromoxynil and MCPA. The potential exposure for mixers, loaders, applicators and post-application re-entry workers is not expected to exceed the current exposure to registered products. No health risks of concern are expected when workers follow the label directions and wear the personal protective equipment identified on the label.

Environmental Assessment

The proposed amendments to the label of Enforcer M Herbicide (new application timing, new crop, new tank mix partners and new pests) are not expected to increase the environmental impact / risk relative to the currently registered uses. Environmental risks have been mitigated through adequate label statements.

Value Assessment

The applicant submitted an application to add several weed control claims, new tank-mix recommendations, and to add canary seed as a host crop and to change the crop stage at application to the Enforcer M Herbicide label. The applicant also proposed to change the criteria for the selection for the rate of application from rates based on weed selectivity to a rate based on size of weeds and density.

Nufarm Agriculture provided a scientific rationale detailing the use pattern of fluroxypyr, bromoxynil and MCPA ester and cited different end-use products such as, Nufarm Fluroxypyr 180 Herbicide (fluroxypyr), Koril 235 (bromoxynil), MCPA ester 600 and the co-formulations of Trophy Herbicide (fluroxypyr + MCPA ester) and Mextrol 450 Liquid Herbicide (bromoxynil + MCPA ester) as the precedent products in support of the proposed list of weeds. In addition, Nufarm provided weed control data collected through research authorization field trials conducted in 2012 at 17 different sites in Manitoba (6 sites), Saskatchewan (6 sites) and Alberta (5 sites).

Based on the information available, the value assessment concludes that American nightshade, ball mustard, bluebur, Canada thistle (top growth control only), cocklebur, common buckwheat, common groundsel, common ragweed, cow cockle, flixweed, green smartweed, hemp-nettle, lady's thumb, night flowering catchfly, pale smartweed, perennial sow thistle (top growth control only), Russian thistle, scentless chamomile, shepherd's purse, stinkweed, stork's bill (suppression only), tartary buckwheat, triazine-resistant pigweed, velvetleaf, volunteer canola, volunteer flax, volunteer rapeseed, volunteer sunflower and wormseed mustard can be added to the list of weeds controlled with an application of Enforcer M at 1.25 L/ha. The value assessment also supports the proposed changes to the tank-mix section, the addition of canary seed as a host crop and the change in the crop stage at which Enforcer M can be applied, from the 3-leaf stage to the 2-leaf stage for wheat (spring, durum and winter) and barley.

Conclusion

The PMRA has reviewed the information provided in support of this application and has determined that the addition of several weed control claims and tank-mix partners, the addition of canary seed as host crop, and the amendment of the stage of crop growth at application to the Enforcer M Herbicide label is acceptable.

References

- 2252879 Research Authorization (0009-RA-12) Results and Rationale to Add Additional Weed Control Claims to Enforcer M Herbicide Label. R. Chandirasekaran. Nufarm Agriculture Inc., November 22, 2012. DACO: 10.1,10.2.3.1,10.3.1

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