

Evaluation Report for Category B, Subcategory 3.11 and 3.12 Application

Application Number: 2011-1656
Application: New or Changes to Product Labels – New pests and new site/host
Product: Banvel II Herbicide
Registration Number: 23957
Active ingredients (a.i.): Dicamba (Present as acid, amine salt, ester, potassium salt) (DIC)
PMRA Document Number : 2355033

Background

Banvel II Herbicide is used for broadleaved weed control in several crops and sites. It is registered for post-emergence application at 230-290 mL/ha alone or in tank mixes to spring wheat, spring barley, winter wheat, oats and spring rye for broadleaved weed control. In field corn, Banvel II may be applied pre-emergence or post-emergence at a range of rates, 290 mL/ha-1.25 L/ha, with specific rates depending on timing, region, or whether Banvel II Herbicide is applied alone or in various tank mixtures. Banvel II Herbicide in tank mixture with glyphosate may be applied in reduced tillage prior to seeding the above crops, or may be applied in reduced tillage fallow in tank mixture with 2,4-D amine, 2,4-D ester or glyphosate. Banvel II Herbicide may also be applied in summerfallow, pasture, rangeland, non-crop areas, low bush blueberries, and in seed production of several grass crops. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Purpose of Application

The purpose of this application was to amend the registration of Banvel II Herbicide, containing 480 g a.e./L dicamba, present as the diglycolamine salt, to include use alone and/or in tank mixture with Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide, containing 540 g a.e./L glyphosate (Reg. No. 27487), on dicamba plus glyphosate tolerant soybean, i.e. varieties designated as “Roundup Ready 2 Xtend Soybeans.”

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

The weight of evidence suggests that the DCGA and DCSA dicamba metabolites were equally or less toxic than dicamba based on the results of the toxicity tests. The established dietary risk assessment endpoints for dicamba (PRVD2007-05 – *The Use of Dicamba in Agricultural and Industrial Sites*) will be protective for the DCGA and DCSA metabolites.

No residue chemistry data were submitted to support the use of Banvel II Herbicide on Roundup Ready 2 Xtend Soybeans. Previously reviewed residue data were considered in the context of the current application. The use direction for Banvel II Herbicide, applied alone or in tank-mix with glyphosate, on Roundup Ready 2 Xtend Soybeans is identical compared to the approved M1691 Herbicide label. Exposure to residues of dicamba in food and drinking water following the use of Banvel II Herbicide on Roundup Ready 2 Xtend Soybeans will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Banvel II Herbicide for use on dicamba tolerant soybeans is an expansion of use; however, the potential exposure for mixers, loaders, applicators and post-application re-entry workers is not expected to result in risks of concern provided that all label statements and precautions are followed and workers wear the personal protective equipment identified on the label.

Environmental Assessment

The use expansion of Banvel II Herbicide, to include Dicamba Tolerant/ Roundup Ready 2 Yield Soybeans, is within the currently registered use pattern and maximal seasonal application rate. As such, exposure of non-target organisms in the environment is not expected to increase. Buffer zones were calculated for soybean, to be included in the currently registered Banvel II herbicide buffer zone table. The buffer zone for terrestrial habitats is 4 meter, whereas the aquatic buffer zone is 1 meter for water bodies with depths greater than 1 meter.

Value Assessment

The requested use of Banvel II Herbicide applied alone and/or in tank mixture with Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide on “Roundup Ready® 2 Xtend Soybeans”, was reviewed and supported under application number 2010-1547 for M1691 Herbicide, which is agronomically equivalent to Banvel II Herbicide.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Banvel II Herbicide to include application alone and/or in tank mixture with Roundup WeatherMax with Transorb 2 Technology Liquid Herbicide to soybean varieties with both the dicamba-tolerance and glyphosate-tolerance traits (i.e. varieties designated as Roundup Ready® 2 Xtend Soybeans) for broad spectrum weed control.

References

PMRA Number	Reference
2041645	2011, Banvel II Herbicide (PCP No. 23957), Addition of Dicamba Tolerant Roundup Ready 2 Yield Soybeans - Use Pattern Already Under Review (Sub. No. 2010-1547), DACO: 0.8

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