

Express SG Herbicide

Evaluation Report for Category B Streamlined, Subcategory 3.10 Application

Application Number: 2014-3920
Application: Category B, Subcategory 3.10 Application (new or changes to product labels – tank mixes)
Product: Express SG Herbicide
Registration Number: 28262
Active ingredients (a.i.): tribenuron-methyl [MEX]
PMRA Document Number : 2503742

Background

Express SG Herbicide (Reg. No. 28262) was first registered in March of 2006. Express SG Herbicide contains 50% w/w tribenuron-methyl (Group 2 Herbicide) and is labelled for control of certain broadleaved weeds in summerfallow, as a post-harvest treatment and on fields to be planted to spring wheat (including durum), winter wheat, spring barley, oats, canary seed, pulse crops (including dry bean, faba bean, field pea, lupin and soybean), alfalfa, red clover, alsike clover smooth brome grass, meadow brome grass, timothy and creeping red fescue and in pasture and rangeland and as well as certain broadleaf weeds in tribenuron-methyl tolerant sunflowers (e.g. ExpressSun™ Sunflowers SU7) in the Prairie Provinces and Peace River region of British Columbia. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Purpose of Application

E.I. DuPont Canada has applied to amend the registration of Express SG Herbicide to include a tank mix with glyphosate (present as potassium salt, isopropylamine salt, ammonium salt or trimethylsulfonium salt) plus dicamba (Oracle Dicamba Agricultural Herbicide (Reg. No. 26722) or DuPont Dicamba L Herbicide (Reg. No. 31536)) to serve as a resistance management tool for kochia when applied pre-seed to wheat (spring and durum) and spring barley.

Chemistry, Health and Environmental Assessments

A chemistry assessment was not required since there was no change to product chemistry. Health and Environmental assessments were not required since the use pattern, including host crops, application rates and timings of the component products remain unchanged.

Value Assessment

With the existence of Group 2 resistant kochia populations in the Prairie Provinces, and the recent identification of Group 9 resistant kochia populations in locations of the southern Prairies, awareness around the management of kochia is high. One of the strategies recommended by

weed researchers is the tank mixing of herbicides with different modes of action to delay the evolution of resistance and/or to manage resistant populations. The tank mix of Express SG Herbicide + 70 g ae/ha dicamba + 450 g ae/ha glyphosate combines three active ingredients with three different modes of action that all have activity on the target species kochia.

Data from six small-scale field trials that were conducted in Alberta and Manitoba were provided for review. The data demonstrate that Express SG Herbicide + 450 g ae/ha glyphosate + 70 g ae/ha dicamba can be expected to provide an acceptable level of control of kochia (including Group 2 and Group 9 resistant biotypes) when applied pre-seed to small seeded spring cereals.

Accordingly, based on all available information, an amendment to the registration of Express SG Herbicide to include a new tank mix with glyphosate plus Oracle Dicamba Agricultural Herbicide or DuPont Dicamba L Herbicide to serve as a resistance management tool for kochia when applied pre-seed to wheat (spring and durum) and spring barley can be supported from a value perspective.

Conclusion

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Express SG Herbicide by including glyphosate and dicamba (Oracle Dicamba Agricultural Herbicide or DuPont Dicamba L Herbicide) as new tank mix partners.

References

PMRA Doc Number	Reference
2457350	2014, Express SG Herbicide + Dicamba + Glyphosate Pre-Seed Application Tank Mix for Resistance Management, DACO: 10.1,10.2,10.2.1,10.2.2,10.2.3,10.2.3.1,10.2.3.3(B),10.3.2,10.5
2497798	2015, DuPont Response to Clarification, DACO: 10.1,10.2,10.2.2,10.2.3.1,10.2.4,10.5

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